USDA United States Department of Agriculture

Natural Resources Conservation Service

Montana Water Supply Outlook Report May 1, 2005

Picture: Black Bear SNOTEL Site - Winter of 1997

Water Supply Outlook Report
and
Federal - State - Private
Cooperative Snow Surveys

For more water supply and resource management information, contact:
See Attached List

How forecasts are made

Most of the annual streamflow in the Western United States originates as snowfall that has accumulated high in the mountains during winter and early spring. As the snowpack accumulates, hydrologists estimate the runoff that will occur when it melts. Predictions are based on careful measurements of snow water equivalent at selected index points. Precipitation, temperature, soil moisture and antecedent streamflow data are combined with snowpack data to prepare runoff forecasts. Streamflow forecasts are coordinated by Natural Resources Conservation Service and National Weather Service hydrologists. This report presents a comprehensive picture of water supply conditions for areas dependent upon surface runoff. It includes selected streamflow forecasts, summarized snowpack and precipitation data, reservoir storage data, and narratives describing current conditions.

Snowpack data are obtained by using a combination of manual and automated SNOTEL measurement methods. Manual readings of snow depth and water equivalent are taken at locations called snow courses on a monthly or semi-monthly schedule during the winter. In addition, snow water equivalent, precipitation and temperature are monitored on a daily basis and transmitted via meteor burst telemetry to central data collection facilities. Both monthly and daily data are used to project snowmelt runoff.

Forecast uncertainty originates from two sources: (1) uncertainty of future hydrologic and climatic conditions, and (2) error in the forecasting procedure. To express the uncertainty in the most probable forecast, four additional forecasts are provided. The actual streamflow can be expected to exceed the most probable forecast 50% of the time. Similarly, the actual streamflow volume can be expected to exceed the 90% forecast volume 90% of the time. The same is true for the 70%, 30%, and 10% forecasts. Generally, the 90% and 70% forecasts reflect drier than normal hydrologic and climatic conditions; the 30% and 10% forecasts reflect wetter than normal conditions. As the forecast season progresses, a greater portion of the future hydrologic and climatic uncertainty will become known and the additional forecasts will move closer to the most probable forecast.

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Natural Resources Conservation Service
Bozeman, Montana

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Where to Get More Information

This contact list provides you with the names and phone numbers of individuals who can provide more detailed snow survey information for each county.

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Broadwater County
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Julie Sacks
287-3215

Judith Basin County
Rick Caquelin
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Lake County
David Wolf
676-2841

Lewis and Clark County
Mindy Gauthier
449-5000

Liberty County
Dawn Wickum
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Lincoln County
Kirk Sullivan
296-2233

Madison County
Ole Berkram
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McCone County
Regan Fanning
485-2744

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Tammy DeCock
547-3633

(over)

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829-3395

Missoula County
Tony Prince
829-3395

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Park County
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Petroleum County
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Pondera County
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Powder River County
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Monica Friedrich
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Silver Bow County
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Stillwater County
Philip Sandoval
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Sweet Grass County
Chuck Roloff
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Teton County
Stacy Denny-Eneboe
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Misty Vermulm
434-5234

Treasure County
Stewart Greer
342-5510

Valley County
Denise Wiedenheft
228-4321

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632-5534

Wibaux County
Katrina Johnson
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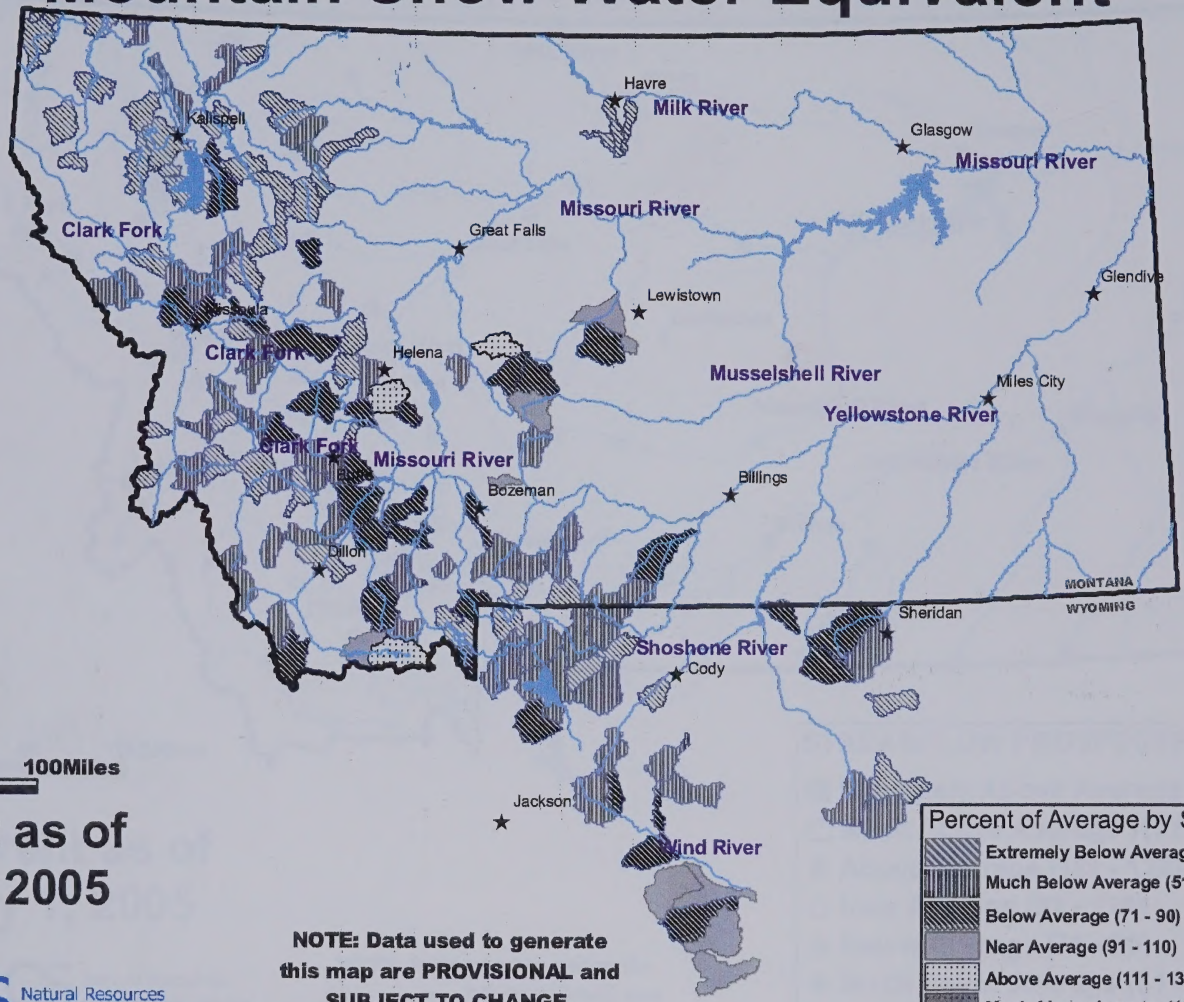
Yellowstone County
Valerie Roberson
657-6135

1/6/05

UNITED STATES DEPARTMENT OF AGRICULTURE

NATURAL RESOURCES CONSERVATION SERVICE

Mountain Snow Water Equivalent



Current as of May 1, 2005

NOTE: Data used to generate this map are PROVISIONAL and SUBJECT TO CHANGE.

Percent of Average by Sub-Basin

- Extremely Below Average (Below 51)
- Much Below Average (51 - 70)
- Below Average (71 - 90)
- Near Average (91 - 110)
- Above Average (111 - 130)
- Much Above Average (131 - 150)
- Extremely Above Average (Over150)

NRCS Natural Resources Conservation Service

http://www.mt.nrcs.usda.gov

UNITED STATES DEPARTMENT OF AGRICULTURE

NATURAL RESOURCES CONSERVATION SERVICE

Streamflow Prospects for Montana

Current as of May 1, 2005

NRCS Natural Resources Conservation Service

http://www.mt.nrcs.usda.gov

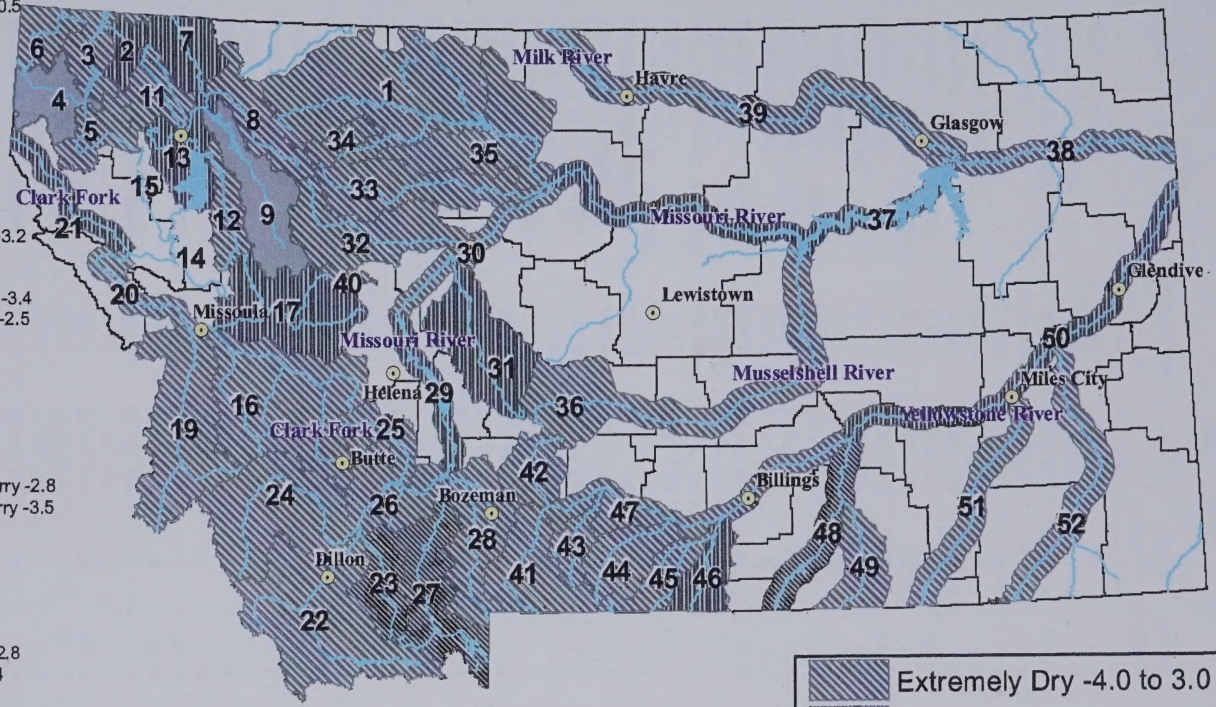
NOTE: Data used to generate this map are PROVISIONAL and SUBJECT TO CHANGE.

STREAMFLOW PROSPECTS

- Extremely Above Average (Over150)
- Much Above Average (131 - 150)
- Above Average (111 - 130)
- Near Average (91 - 110)
- Below Average (71 - 90)
- Much Below Average (51 - 70)
- Extremely Below Average (Below 51)

Surface Water Supply Index (SWSI) Values

UNITED STATES DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE



RIVER INDEX & SWSI VALUES

1 Marias above Tiber Reservoir -3.9
2 Tobacco -2.1
3 Kootenai Ft. Steele to Libby Dam -3.1
4 Kootenai below Libby Dam -0.5
5 Fisher -3.5
6 Yaak -3.4
7 North FK. Flathead -2.9
8 Middle FK. Flathead -3.2
9 South FK. Flathead -0.7
11 Stillwater/Whitefish -3.5
12 Swan -3.2
13 Flathead at Polson -2
14 Mission Valley
15 Little Bitterroot
16 Clark Fork above Milltown -3.2
17 Blackfoot -2.9
19 Bitterroot -3.9
20 Clark Fork below Bitterroot -3.4
21 Clark Fork below Flathead -2.5
22 Beaverhead -3.5
23 Ruby -1.5
24 Big Hole -3.3
25 Boulder (Jefferson) -3.6
26 Jefferson -3.9
27 Madison -1.8
28 Gallatin -3.3
29 Missouri above Canyon Ferry -2.8
30 Missouri below Canyon Ferry -3.5
31 Smith -2.3
32 Sun -3.7
33 Teton -3.4
34 Birch/Dupuyer Creeks -3.4
35 Marias -3.6
36 Musselshell -3.2
37 Missouriabove Fort Peck -2.8
38 Missouribelow Fort Peck -4
39 Milk -3.1
40 Dearbornnear Craig -3.8
41 Yellowstone above Livingston -3
42 Shields -3.1
43 Boulder(Yellowstone) -3.2
44 Stillwater -3.6
45 Rock/Red Lodge Creeks -3.8
46 Clarks Fork -2.9
47 Yellowstone above Bighorn -3.1
48 Bighorn below Bighorn Lake -1.2
49 Little Bighorn -3.5
50 Yellowstone below Bighorn -2.2
51 Tongue -3.1
52 Powder -3.5

0 45 90 Miles

NOTE: Data used to generate this map are PROVISIONAL and SUBJECT TO CHANGE.

Current as of May 1, 2005

NRCS Natural Resources Conservation Service

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- Extremely Dry -4.0 to 3.0
- Moderately Dry -2.9 to -2.0
- Slightly Dry -1.9 to -1.0
- Near Average -0.9 to 0.9
- Sightly Wet 1.0 to 1.9
- Moderately Wet 2.0 to 2.9
- Extremely Wet 3.0 to 4.0
- SWSI Not Apllicable

MONTANA SNOW COURSE AND SNOTEL DATA

MAY 2005

SNOW COURSE	ELEVATION	DATE	SNOW DEPTH	WATER CONTENT	LAST YEAR	AVERAGE 71-00
ABE LINCOLN	4440	4/25/05	10	3.3	7.0	14.3
ABUNDANCE LAKE	8800	4/29/05	40	11.5	15.4	22.9
ALBRO LAKE SNOTEL	8300	5/01/05	52	16.8	18.9	23.3
AMBROSE	6480	4/29/05	20	5.8	4.3	11.1
ARCH FALLS	7350	4/25/05	30	9.4	6.4	13.1
ASHLEY DIVIDE	4820	4/26/05	0	.0	.0	1.1
ASHLEY LAKE	4000	4/26/05	0	.0	.0	1.2
BADGER PASS SNOTEL	6900	5/01/05	54	21.5	24.9	36.2
BANFIELD MTN SNOTEL	5600	5/01/05	18	5.4	5.0	17.1
BAREE CREEK	5500	4/27/05	49	20.1	30.8	40.3
BAREE MIDWAY	4600	4/27/05	21	7.5	22.6	27.4
BAREE TRAIL	3800	4/27/05	0	.0	.0	1.3
BARKER LAKES SNOTEL	8250	5/01/05	51	15.4	12.7	16.2
BASIN CREEK SNOTEL	7180	5/01/05	27	8.4	9.0	10.0
BASSOO PEAK	5150	4/26/05	0	.0	.0	3.2
BEAGLE SPGS SNOTEL	8850	5/01/05	26	8.8	2.3	9.3
BEAR BASIN	8150	4/29/05	41	13.2	10.4	21.2
BEAVER CREEK SNOTEL	7850	5/01/05	44	14.6	16.5	18.8
BIG SNOWY	7150	4/29/05	66	20.4	19.7	22.5
BISSON CREEK SNOTEL	4920	5/01/05	---	1.3	1.2	3.6
BLACK BEAR SNOTEL	7950	5/01/05	77	34.2	36.7	39.9
BLACK MOUNTAIN	7750	4/29/05	40	12.6	13.0	16.9
BLACK PINE SNOTEL	7100	5/01/05	27	8.5	.9	11.0
BLACKTAIL	5650	4/26/05	12	4.0	2.2	9.7
BLOODY DICK SNOTEL	7550	5/01/05	17	5.2	2.1	10.9
BLUE LAKE	5900	4/25/05	33	11.8	11.6	22.4
BOTS SOTS	7750	4/29/05	19	4.3	.0	7.4
BOULDER MTN SNOTEL	7950	5/01/05	44	15.1	16.2	21.6
BOX CANYON SNOTEL	6700	5/01/05	10	3.6	.0	6.0
BOXELDER CREEK	5100	4/25/05	0	.0	.6	2.6
BRACKETT CR SNOTEL	7320	5/01/05	53	21.2	11.1	21.5
BRANHAM LAKES	8850	4/27/05	69	24.8	27.4	32.2
BRUSH CREEK TIMBER	5000	4/28/05	0	.0	.0	3.6
BULL MOUNTAIN	6600	4/29/05	4	.8	.0	2.6
BURNT MTN SNOTEL	5880	5/01/05	4	1.0	.0	--
CABIN CREEK	5200	4/27/05	1	.3E	.0	1.4
CALL ROAD	8050	4/29/05	32	7.8	7.4	12.5
CALVERT CR SNOTEL	6430	5/01/05	0	.0	.0	2.4
CAMP SENIA	7890	4/29/05	25	5.4	2.0	7.6
CARROT BASIN SNOTEL	9000	5/01/05	63	22.5	28.2	31.0
CARTER CREEK	7400	4/27/05	9	2.3	.0	6.0
CHESSMAN RESERVOIR	6200	4/28/05	6	.7	.0	1.7
CHICKEN CREEK	4060	4/26/05	0	.0	4.3	5.4
CLOVER MDW SNOTEL	8800	5/01/05	47	14.4	12.5	19.4
COLE CREEK SNOTEL	7850	5/01/05	56	16.3	12.2	19.7
COLLEY CREEK	6300	4/27/05	13	2.8	.5	4.3
COMBINATION SNOTEL	5600	5/01/05	0	.0	.0	1.2
COPPER BOTTOM SNOTEL	5200	5/01/05	0	.0	.0	4.5
COPPER CAMP SNOTEL	6950	5/01/05	49	21.3	25.7	30.2
COPPER MOUNTAIN	7700	4/26/05	25	8.9	6.5	10.0
COTTONWOOD CREEK	6400	4/29/05	16	6.0	6.1	7.3
COYOTE HILL	4200	4/28/05	0	.0	.0	2.6
CRYSTAL LAKE SNOTEL	6050	5/01/05	49	14.7	10.4	9.4
DAD CREEK LAKE	8400	4/29/05	42	11.6	12.0	16.8
DAISY PEAK SNOTEL	7600	5/01/05	34	10.5	8.3	11.0
DALY CREEK SNOTEL	5780	5/01/05	10	3.7	.0	5.3
DARKHORSE LK. SNOTEL	8700	5/01/05	62	23.2	24.9	35.4
DAVIS CREEK	5400	4/29/05	26	8.5	13.3	20.2
DEADMAN CR SNOTEL	6450	5/01/05	18	6.6	.0	5.9
DISCOVERY BASIN	7050	4/28/05	22	6.5	5.0	9.4

SNOW COURSE	ELEVATION	DATE	SNOW DEPTH	WATER CONTENT	LAST YEAR	AVERAGE 71-00
DIVIDE SNOTEL	7800	5/01/05	36	11.1	10.3	12.0
DIX HILL	6400	5/01/05	0	.0	.0	3.8
DUPUYER CREEK SNOTEL	5750	5/01/05	8	2.4	1.9	7.9
EAST FORK R.S.	5400	4/29/05	0	.0	.0	.7
ELK HORN SPRINGS	7800	4/29/05	15	3.9	.5	7.5
ELK PEAK	8000	4/27/05	51	17.4	11.4	17.8
EMERY CREEK SNOTEL	4350	5/01/05	0	.0	.0	7.4
FATTY CREEK	5500	4/26/05	42	16.7	14.4	23.4
FISH CREEK	8000	4/29/05	31	9.4	11.0	11.5
FISHER CREEK SNOTEL	9100	5/01/05	71	26.3	28.2	37.8
FIVE-BULL	5700	5/01/05	0	.0	.0	2.0
FLATTOP MTN SNOTEL	6300	5/01/05	79	31.8	37.2	46.7
FLEECER RIDGE	7500	4/29/05	18	5.1	.6	8.7
FOOLHEN	8280	4/29/05	37	10.2	9.9	17.7
FOUR MILE	6900	4/26/05	13	4.6	1.6	6.2
FOURTH OF JULY	3450	4/25/05	0	.0	.0	1.0
FREIGHT CREEK	6000	4/25/05	8	2.6	.0	12.0
FROHNER MDWS SNOTEL	6480	5/01/05	22	8.0	2.5	6.5
GARVER CREEK SNOTEL	4250	5/01/05	0	.0	.0	3.2
GOLD STONE	8100	4/29/05	23	7.0	8.8	17.7
GRASSHOPPER	7000	4/25/05	6	2.0	.0	4.0
GRAVE CRK SNOTEL	4300	5/01/05	0	.0	.8	7.0
GRIFFIN CR DIVIDE	5150	4/26/05	0	.0	.0	4.9
HAND CREEK SNOTEL	5030	5/01/05	0	.0	.0	6.8
HAWKINS LAKE SNOTEL	6450	5/01/05	34	13.9	18.5	28.9
HEBGEN DAM	6550	5/03/05	0	.0	.0	6.6
HELL ROARING DIVIDE	5770	4/25/05	52	20.1	24.0	29.0
HERRIG JUNCTION	4850	4/26/05	37	14.7	17.0	22.9
HOLBROOK	4530	4/29/05	0	.0	.0	1.2
HOODOO BASIN SNOTEL	6050	5/01/05	76	28.4	31.2	45.7
ICEBERG LAKE NO 3	5600	4/26/05	32	12.1	20.8	27.7
INDEPENDENCE	7850	4/29/05	34	11.4	9.3	16.1
INTERGAARD	6450	4/27/05	5	1.0	.0	6.1
JOHNSON PARK	6450	4/29/05	0	.0	.0	1.4
JOSEPHINE LOWER NO 9	4900	4/27/05	1	.1	2.2	13.0
KRAFT CREEK SNOTEL	4750	5/01/05	0	.0	.0	5.2
LAKE CREEK	6100	4/29/05	0	.0	.0	2.7
LAKEVIEW CANYON	6930	5/02/05	33	11.4	6.9	9.7
LAKEVIEW RDG. SNOTEL	7400	5/01/05	40	12.5	6.9	8.7
LEMHI RIDGE SNOTEL	8100	5/01/05	29	9.6	3.8	10.9
LICK CREEK SNOTEL	6860	5/01/05	29	9.1	4.8	10.1
LITTLE PARK	7400	4/29/05	24	6.8	6.6	15.9
LOGAN CREEK	4300	4/28/05	0	.0	.0	1.7
LONE MOUNTAIN SNOTEL	8880	5/01/05	44	15.0	12.3	20.8
LOWER TWIN SNOTEL	7900	5/01/05	54	17.3	18.6	21.3
LUBRECHT SNOTEL	4680	5/01/05	0	.0	.0	.5
LUBRECHT FOREST NO 3	5450	4/29/05	0	.0	.0	1.7
LUBRECHT FOREST NO 4	4650	4/29/05	0	.0	.0	.1
LUBRECHT FOREST NO 6	4040	4/29/05	0	.0	.0	.0
LUBRECHT HYDROPLOT	4200	4/29/05	0	.0	.0	.1
MADISON PLT SNOTEL	7750	5/01/05	52	19.4	21.7	24.2
MANY GLACIER SNOTEL	4900	5/01/05	0	.0	.0	5.7
MARIAS PASS	5250	4/29/05	1	.1	2.9	12.5
MIDDLE MILL CREEK	7850	4/27/05	34	11.3	8.7	15.1
MILL CREEK	7500	5/01/05	---	8.1E	1.5	10.3
MINERAL CREEK	4000	4/30/05	0	.0	.0	9.6
MONUMENT PK SNOTEL	8850	5/01/05	47	16.2	16.7	23.2
MOSS PEAK SNOTEL	6780	5/01/05	78	32.8	31.2	41.8
MOULTON RESERVOIR	6850	5/01/05	1	.3E	.0	3.5
MOUNT ALLEN NO 7	5700	4/27/05	54	22.0	25.6	41.7
MT LOCKHART SNOTEL	6400	5/01/05	35	12.3	14.7	21.2
MULE CREEK SNOTEL	8300	5/01/05	40	11.5	13.0	17.0
N.E. ENTRANCE SNOTEL	7350	5/01/05	0	.0	.0	7.1
NEVADA RIDGE SNOTEL	7020	5/01/05	30	10.5	8.9	14.4

SNOW COURSE	ELEVATION	DATE	SNOW DEPTH	WATER CONTENT	LAST YEAR	AVERAGE 71-00
NEW WORLD	6900	4/29/05	29	8.1	--	--
NEWTON MOUNTAIN	5600	4/25/05	60	23.0	22.0	33.8
NEZ PERCE CMP SNOTEL	5650	5/01/05	14	4.9	4.6	10.8
NEZ PERCE CREEK	6600	4/26/05	0	.0	.0	2.7
NEZ PERCE PASS	6570	4/29/05	14	4.5	5.5	14.2
N.F. ELK CR SNOTEL	6250	5/01/05	26	8.6	2.2	8.0
NF JOCKO SNOTEL	6330	5/01/05	74	25.3	33.7	44.4
NOISY BASIN SNOTEL	6040	5/01/05	78	32.0	34.2	43.8
NOTCH	8500	4/29/05	49	13.0	14.8	19.4
OPHIR PARK	7150	5/01/05	27	9.9	5.0	16.0
PETERSON MDW SNOTEL	7200	5/01/05	28	8.7	7.6	11.0
PICKET PIN LOWER	6200	4/27/05	4	.2	.0	--
PICKET PIN MIDDLE	7250	4/27/05	6	.4	.0	--
PICKET PIN UPPER	8100	4/27/05	49	14.0	17.6	--
PICKFOOT CRK SNOTEL	6650	5/01/05	12	3.4	.0	6.4
PIEGAN PASS NO 6	5500	4/27/05	43	16.2	24.1	35.5
PIKE CREEK SNOTEL	5930	5/01/05	33	12.3	11.0	25.9
PIPESTONE PASS	7200	4/27/05	10	2.5	.7	4.8
PLACER BASIN SNOTEL	8830	5/01/05	46	14.4	13.6	19.8
POORMAN CR SNOTEL	5100	5/01/05	35	14.5	20.0	30.0
PORCUPINE SNOTEL	6500	5/01/05	0	.0	.0	3.6
POTOMAGETON PARK	7150	5/01/05	7	2.1	.5	8.3
PTARMIGAN	5800	4/26/05	39	13.6	24.4	33.5
RED MOUNTAIN	6000	4/28/05	23	7.8	10.3	16.4
RED TOP	5260	5/01/05	---	12.1E	16.1	27.0
REVAIS CREEK	4800	4/28/05	0	.0	.0	.5
ROCK CREEK	5600	4/29/05	12	3.2	1.2	4.4
ROCK CREEK MEADOW	8160	4/29/05	54	14.6	11.5	22.7
ROCKER PEAK SNOTEL	8000	5/01/05	41	12.4	14.5	16.6
ROCKY BOY SNOTEL	4700	5/01/05	---	.4	.0	1.2
SACAJAWEA	6550	4/26/05	27	9.9	3.6	12.0
SACAJAWEA SNOTEL	6550	5/01/05	30	12.0	.4	12.8
SADDLE MTN SNOTEL	7900	5/01/05	47	15.7	19.5	26.5
S.F. SHIELDS SNOTEL	8100	5/01/05	48	15.8	13.9	19.6
SHORT CREEK SNOTEL	7000	5/01/05	14	4.1	.3	4.7
SHOWER FALLS SNOTEL	8100	5/01/05	68	22.7	17.2	26.9
SKALKAHO SNOTEL	7260	5/01/05	39	13.0	17.6	25.4
SLEEPING WOMAN SNTL	6150	5/01/05	26	9.4	6.3	13.4
SLIDE ROCK MOUNTAIN	7100	4/28/05	35	10.0	9.6	15.7
SMUGGLER MINE	6960	4/27/05	16	4.3	2.6	7.6
SPOTTED BEAR MTN.	7000	4/25/05	0	.0	.0	7.6
SPUR PARK SNOTEL	8100	5/01/05	63	20.5	18.6	23.2
STAHL PEAK SNOTEL	6030	5/01/05	74	29.6	30.0	37.1
STEMPLE PASS	6600	4/28/05	16	4.6	3.2	9.3
STORM LAKE	7780	4/28/05	35	10.4	10.0	14.3
STRYKER BASIN	6180	4/26/05	62	21.8	26.6	32.6
STUART MOUNTAIN SNTL	7400	5/01/05	68	25.2	22.5	32.3
SUCKER CREEK	3960	4/25/05	0	.0	.0	.2
TAYLOR ROAD	4080	4/25/05	0	.0	.0	.3
TEN MILE LOWER	6600	4/28/05	12	2.7	.0	4.5
TEN MILE MIDDLE	6800	4/28/05	29	7.6	6.3	11.2
TEPEE CREEK SNOTEL	8000	5/01/05	35	10.9	12.3	13.6
TIMBERLINE CREEK	8850	4/29/05	49	12.8	11.2	17.3
TIZER BASIN SNOTEL	6840	5/01/05	20	7.4	4.4	9.5
TRAIL CREEK	7090	4/29/05	13	3.7	.0	6.1
TRINKUS LAKE	6100	4/25/05	77	32.7	31.0	40.8
TRUMAN CREEK	4060	4/26/05	0	.0	.0	.1
TV MOUNTAIN	6800	4/26/05	36	13.2	9.0	17.4
TWELVEMILE SNOTEL	5600	5/01/05	0	.0	.0	8.8
TWENTY-ONE MILE	7150	5/01/05	24	9.1	.8	13.4
TWIN CREEKS	3580	4/25/05	0	.0	.0	1.7
TWIN LAKES SNOTEL	6400	5/01/05	55	22.7	28.6	38.5
UPPER HOLLAND LAKE	6200	4/25/05	61	23.1	26.8	33.5
WALDRON SNOTEL	5600	5/01/05	12	4.5	2.2	6.4

SNOW COURSE	ELEVATION	DATE	SNOW DEPTH	WATER CONTENT	LAST YEAR	AVERAGE 71-00
WARM SPRINGS SNOTEL	7800	5/01/05	50	15.3	20.7	23.7
WEASEL DIVIDE	5450	5/04/05	47	17.9	21.7	32.7
WEST YELL'ST SNOTEL	6700	5/01/05	0	.0	.0	6.1
WHISKEY CREEK SNOTEL	6800	5/01/05	37	12.2	13.4	15.2
WHITE MILL SNOTEL	8700	5/01/05	56	18.7	19.0	26.4
WHITE PINE RIDGE	8850	4/29/05	11	3.5	.8	5.6
WILLOW CREEK	6500	4/26/05	0	.0	.1	4.0
WOOD CREEK SNOTEL	5960	5/01/05	22	8.1	3.6	8.5
WRONG CREEK	5700	4/25/05	1	.6	.6	7.7
WRONG RIDGE	6800	5/01/05	---	8.4E	12.3	17.0

Montana Water Supply Outlook Report as of May 1, 2005

April has been another month with near average precipitation. April precipitation was 95 percent of average and 24 percent above April of last year. Precipitation in the Columbia River basin was 92 percent of average, Missouri River basin 100 percent of average and the Yellowstone River basin 84 percent of average. April temperatures were generally near to below average and kept snow melt near average for this time of year.

Snowpack

State-wide mountain snow water contents remain well below average at 63 percent, but are slightly above those on May first last year. Snowpack in the Columbia River basin was 56 percent of average and 90 percent of last year, the Missouri River basin was 70 percent of average and 122 percent of last year and in the Yellowstone River basin was 72 percent of average and 121 percent of last year.

RIVER BASIN	% OF AVERAGE	% OF LAST YEAR	APRIL % CHANGE
COLUMBIA	56	90	+3
KOOTENAI, MONTANA	49	74	-4
KOOTENAI, CANADA	62	86	-10
FLATHEAD, MONTANA	59	93	+2
UPPER CLARK FORK	65	105	+13
BITTERROOT	50	89	0
LOWER CLARK FORK	53	80	+1
MISSOURI	70	122	+5
MISSOURI HEADWATERS	72	120	+7
JEFFERSON	71	115	+10
MADISON	70	99	-1
GALLATIN	75	139	0
MISSOURI MAINSTEM	69	126	+6
HEADWATERS MAINSTEM	72	123	+8
SMITH-JUDITH-MUSSELSHELL	90	145	+13
SUN-TETON-MARIAS	47	99	-2
ST. MARY	45	71	+2
ST. MARY & MILK	44	71	-5
YELLOWSTONE	72	121	-1
UPPER YELLOWSTONE	67	128	-2
LOWER YELLOWSTONE	75	117	0

Precipitation

April, mountain and valley, precipitation across the state was 102 percent of average and 138 percent of last year, while the water year precipitation was 78 percent of average and 92 percent of last year. West of the Continental Divide, April mountain and valley precipitation was 93 percent of average and 115 percent of last year and the water year precipitation was 74 percent of average and 87 percent of last year. East of the Divide, April mountain and valley precipitation was 107 percent of average and 153 percent of last year and the water year precipitation was 81 percent of average and 96 percent of last year.

RIVER BASIN	APRIL % OF AVERAGE	WATER YEAR % OF AVERAGE
COLUMBIA	93	74
KOOTENAI	57	77
FLATHEAD	82	81
UPPER CLARK FORK	125	73
BITTERROOT	91	62
LOWER CLARK FORK	99	71
MISSOURI	106	80
JEFFERSON	106	75
MADISON	84	77
GALLATIN	78	77
MISSOURI MAINSTEM	112	80
SMITH-JUDITH-MUSSELSHELL	132	90
SUN-TETON-MARIAS	102	78
MILK	115	89
ST. MARY	71	75
YELLOWSTONE	96	81
UPPER YELLOWSTONE	89	77
LOWER YELLOWSTONE	98	84

Reservoirs

Major reservoir storage statewide was 89 percent of average and 100 percent of last year. Reservoir storage west of the Continental Divide was 174 percent of average and 111 percent of last year. East of the Continental Divide, reservoir storages were 66 percent of average and 94 percent of last year.

RIVER BASIN	% OF AVERAGE	% OF LAST YEAR
COLUMBIA	174	111
KOOTENAI	208	109
FLATHEAD	159	113
UPPER CLARK FORK	98	98
BITTERROOT	108	88
LOWER CLARK FORK	118	104
MISSOURI	64	93
JEFFERSON	64	142
MADISON	113	112
GALLATIN	143	100
MISSOURI MAINSTEM	62	92
SMITH-JUDITH-MUSSELSHELL	45	101
SUN-TETON-MARIAS	101	97
MILK	73	109
ST. MARY	120	375
YELLOWSTONE	88	104
UPPER YELLOWSTONE	116	111
LOWER YELLOWSTONE	87	104

Streamflow

SEASONAL STREAMFLOW FORECASTS

Statewide, streamflows are forecast to average 45 and 57 percent. West of the Continental Divide, streamflows are forecast to average 45 and 53 percent and east of the Continental Divide, streamflows are forecast to average 44 and 59 percent of average.

Streamflow forecasts this year are near to below those forecast at this time last year. There will be surface water shortages this year, but timely rain could lessen severity of shortages. Water users and water managers need to plan for possible water shortages and adjust accordingly.

Below are River Basin streamflow forecast summaries for the period May 1 through July 31. THESE FORECASTS ASSUME NEAR NORMAL SPRING CONDITIONS AND DO NOT ACCOUNT FOR WELL BELOW AVERAGE (70% or less) OR WELL ABOVE AVERAGE (130% or more) SNOWMELT OR SPRING RAIN. Specific forecast probabilities are available in each individual River Basin Report.

RIVER BASIN	May-July THIS YEAR % OF AVERAGE	May-July LAST YEAR % OF AVERAGE
COLUMBIA	45 to 53	49 to 57
KOOTENAI	53 to 60	58 to 67
FLATHEAD	53 to 60	55 to 61
UPPER CLARK FORK	37 to 45	42 to 52
BITTERROOT	43 to 50	45 to 55
LOWER CLARK FORK	44 to 51	48 to 54
MISSOURI	40 to 56	43 to 58
JEFFERSON	32 to 47	28 to 42
MADISON	72 to 79	73 to 80
GALLATIN	62 to 70	67 to 75
MISSOURI MAINSTEM	46 to 62	47 to 64
SMITH-JUDITH-MUSSELSHELL	36 to 54	45 to 60
SUN-TETON-MARIAS	35 to 49	49 to 64
MILK	31 to 55	20 to 39
ST. MARY	64 to 70	73 to 80
YELLOWSTONE	55 to 67	56 to 68
UPPER YELLOWSTONE	59 to 69	60 to 70
LOWER YELLOWSTONE	50 to 64	50 to 64

NOTE: The MAY-JULY LAST YEAR % OF AVERAGE column above is last years forecasts on May 1, NOT of what actually occurred.

Peak Streamflow Forecasts

CURRENT AS OF APRIL 28

PEAK STREAMFLOW FORECASTS FOR UNREGULATED STREAMS ARE AS FOLLOWS:

WATERSHED	PEAK FLOW DATES
COLUMBIA RIVER BASIN	
Tobacco River near Eureka	May 7 to May 15
Fisher River near Libby	May 5 to May 15
Yaak River near Troy	May 4 to May 13
North Fork Flathead River near Columbia Falls	May 6 to May 18
Middle Fork Flathead River near West Glacier	May 5 to May 16
Hungry Horse Reservoir inflow	May 7 to May 14
Lower Willow Reservoir inflow	May 7 to May 15
Swan River near Big Fork	May 8 to May 14
Blackfoot River near Bonner	May 13 to May 25
Clark Fork above Missoula	May 10 to May 22
Clark Fork below Missoula	May 12 to May 24
Bitterroot River near Darby	May 10 to May 18
Nevada Creek near Finn	May 10 to May 20
Middle Fork Rock Creek	May 18 to May 27
Clark Fork at St. Regis	May 8 to May 15
MISSOURI RIVER BASIN	
Clark Canyon Res. inflow	May 21 to May 29
Ruby Res. inflow	May 12 to May 21
Big Hole near Melrose	May 25 to May 29
Hebgen Res. inflow	May 12 to May 21
Inflow Middle Creek Reservoir	May 25 to June 9
Gallatin River near Gateway	May 26 to June 10
Gallatin near Logan	May 27 to June 11
Missouri at Toston	May 23 to May 30
Sheep Creek near White Sulphur Springs	May 22 to May 30
Smith River near Fort Logan	May 21 to June 1
Gibson Reservoir inflow	May 18 to May 23
Swift Reservoir inflow	May 16 to May 22
YELLOWSTONE RIVER BASIN	
Yellowstone River at Lake Outlet	June 13 to June 24
Yellowstone River at Corwin Springs	May 24 to June 2
Yellowstone River at Livingston	May 24 to June 2
Boulder River near Big Timber	May 24 to June 2
Stillwater River near Absarokee	May 24 to June 2
Clarks Fork of Yellowstone near Belfry	May 22 to June 6
Yellowstone River at Billings	May 25 to June 3

Peak Streamflow Forecasts (continued)

Peak volume forecasts are computed using May 1 data.

	PEAK RANGE IN DAILY CFS	PEAK RANGE AS PERCENT OF AVERAGE	AVERAGE DAILY PEAK IN CFS
COLUMBIA RIVER			
Tobacco R. nr Eureka....	760 to 1,170	55 to 84	1,388
Fisher Creek nr Libby...	300 to 1,750	13 to 75	2,334
Yaak River nr Troy	1,400 to 3,850	24 to 66	5,859
Blackfoot near Bonner...	3,100 to 5,900	36 to 69	8,512
Little Blackfoot near Garrison.....	210 to 490	19 to 44	1,115
Clark Fork ab Missoula..	5,000 to 9,400	34 to 64	14,698
Bitterroot near Darby ..	1,900 to 3,200	35 to 59	5,454
Skalkaho Cr nr Hamilton.	175 to 330	34 to 64	513
Clark Fork blw Missoula	7,500 to 19,000	26 to 67	28,482
Clark Fork at St. Regis	10,250 to 25,500	28 to 71	35,987
North Fork Flathead nr Columbia Falls	9,250 to 18,250	47 to 92	19,788
Middle Fork Flathead nr West Glacier	9,500 to 15,200	50 to 79	19,126
Hungry Horse Res Inflow.	13,000 to 19,500	75 to 113	17,281
Stillwater nr Whitefish.	610 to 1,150	36 to 69	1,673
Inflow L. Willow Cr. Res. nr Phillipsburg	28 to 143	13 to 67	214
Swan at Big Fork.....	2,200 to 4,000	45 to 81	4,929
Nevada Creek near Finn..	22 to 170	7 to 56	301
Middle Fork Rock Creek near Philipsburg.....	255 to 520	31 to 63	821
Thompson River near Thompson Falls.....	575 to 1,200	28 to 59	2,047
Prospect Creek at Thompson Falls.....	370 to 750	33 to 62	1,219
MISSOURI RIVER			
Big Hole at Wisdom.....	100 to 1,000	6 to 64	1,566
Big Hole near Melrose ..	1,900 to 4,900	27 to 69	7,139
Inflow Clark Canyon Dam.	80 to 725	7 to 61	1,191
Inflow Ruby Reservoir ..	410 to 920	39 to 87	1,055
Inflow Hebgen Reservoir.	2,200 to 3,700	57 to 97	3,832
Inflow Middle Creek Reservoir.....	130 to 230	50 to 88	262
Gallatin near Gateway ..	2,900 to 4,300	55 to 82	5,232
Gallatin near Logan	1,800 to 4,000	33 to 73	5,468
Boulder R. near Boulder..	375 to 775	32 to 66	1,183
Jefferson nr Three Forks.	900 to 4,300	9 to 45	9,626
Missouri at Toston	7,800 to 14,800	43 to 81	18,209
St.Mary R. at US Border.	2,700 to 4,450	64 to 106	4,188
Badger Cr. nr Browning..	650 to 1,300	38 to 77	1,691
Two Medicine River near Browning.....	875 to 1,820	23 to 47	3,838
Cut Bank Cr. at Cut Bank	275 to 850	22 to 67	1,275
Marias near Shelby	900 to 3,300	13 to 47	6,980
Inflow Gibson Reservoir..	2,400 to 5,000	31 to 65	7,697
Inflow Swift Reservoir..	300 to 730	26 to 63	1,162
Sheep Creek near White Sulphur Springs	112 to 196	59 to 103	190
S. Fk. Musselshell above Martinsdale	200 to 750	18 to 66	1,133
N. Fk. Musselshell Near Delpine.....	12 to 48	24 to 98	49
Musselshell at Harlowton	290 to 690	22 to 53	1,293
Inflow Sherburne.....	660 to 1,200	39 to 71	1,694
Prickly Pear Creek near Clancy.....	118 to 202	53 to 91	221
Dearborn R. nr Craig...	450 to 1,150	27 to 68	1,697

Peak Streamflow Forecasts (continued)

	PEAK RANGE IN DAILY CFS	PEAK RANGE AS PERCENT OF AVERAGE	AVERAGE DAILY PEAK IN CFS
YELLOWSTONE RIVER			
Yellowstone Lake outlet.	2,300 to 3,900	42 to 71	5,487
Yellowstone at Corwin Springs	9,600 to 14,700	55 to 84	17,570
Yellowstone at Livingston	10,700 to 17,500	53 to 86	20,364
Shields R. nr Livingston	600 to 1,420	31 to 73	1,940
Boulder near Big Timber	2,300 to 4,450	46 to 88	5,051
Stillwater nr Absarokee	3,100 to 5,250	51 to 86	6,129
Mystic Lake Inflow	500 to 920	53 to 97	948
Inflow Conney Reservoir.	180 to 700	22 to 84	831
Clarks Fork near Belfry	3,700 to 6,700	49 to 89	7,554
Yellowstone at Billings	19,500 to 33,500	47 to 80	41,617
L. Bighorn nr Hardin	600 to 1,300	32 to 69	1,895
Powder R. at Moorehead	1,000 to 4,000	23 to 91	4,374

Provisional data values and are subject to revision.

NOTE: The low number in the flow range represents the maximum daily flow that would be expected to occur with little rainfall during the peak snowmelt period. The high number in the flow range could be expected with moderate amounts of rain about the same time as maximum snowmelt runoff is occurring.

Surface Water Supply Index

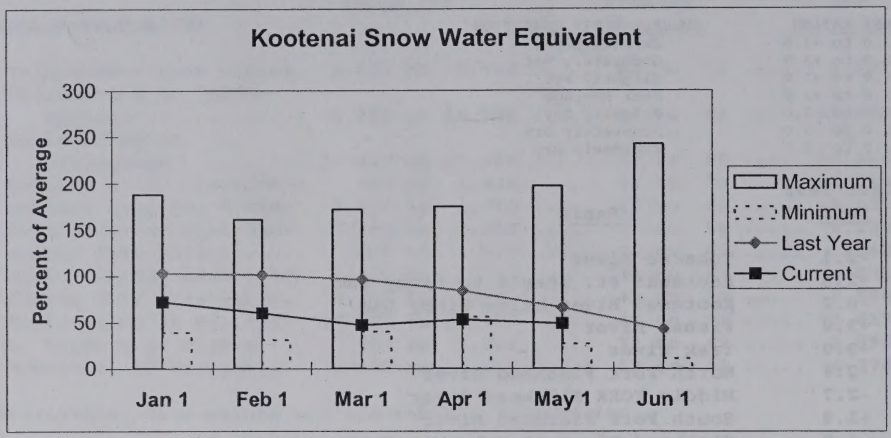
The Surface Water Supply Index (SWSI) is an indicator of surface water supply conditions for the spring and summer months. Water users that rely on mountain precipitation can use the index to evaluate seasonal surface water supplies. The SWSI accounts for mountain snowpack, mountain precipitation, streamflow, reservoir storage, and soil moisture.

SWSI RATING	SURFACE WATER CONDITION
+3.0 to +4.0	Extremely Wet
+2.0 to +3.0	Moderately Wet
+1.0 to +2.0	Slightly Wet
-1.0 to +1.0	Near Average
-1.0 to -2.0	Slightly Dry
-2.0 to -3.0	Moderately Dry
-3.0 to -4.0	Extremely Dry

This Year SWSI	Last Year SWSI	Basin
-2.1	-2.1	Tobacco River
-3.1	-2.5	Kootenai Ft. Steele to Libby Dam
-0.5	-0.2	Kootenai River below Libby Dam
-3.5	-3.0	Fisher River
-3.4	-3.0	Yaak River
-2.9	-2.4	North Fork Flathead River
-3.2	-2.7	Middle FORK Flathead River
-0.7	+1.8	South Fork Flathead River
-2.3	-1.9	Flathead River at Columbia Falls
-3.5	-3.3	Stillwater/Whitefish Rivers
-3.2	-4.0	Swan River
-2.0	-2.4	Flathead River at Polson
--	-3.5	Mission Valley
--	-4.0	Little Bitterroot River
-3.2	-2.5	Clark Fork River above Milltown
-2.9	-2.4	Blackfoot River
-3.9	-3.3	Bitterroot River
-3.4	-3.1	Clark Fork River below Bitterroot River
-2.5	-2.6	Clark Fork River below Flathead River
-3.5	-4.0	Beaverhead River
-1.5	-4.0	Ruby River
-3.3	-4.0	Big Hole River
-3.6	-3.0	Boulder River (Jefferson)
-3.9	-4.0	Jefferson River
-1.8	-2.2	Madison River
-3.3	-2.6	Gallatin River
-2.8	-3.3	Missouri River above Canyon Ferry
-3.5	-3.6	Missouri River below Canyon Ferry
-2.3	-3.1	Smith River
-3.7	-3.1	Sun River
-3.4	-2.8	Teton River
-3.4	-3.1	Birch/Dupuyer Creeks
-3.9	-2.8	Marias River above Tiber
-3.6	-2.2	Marias River below Tiber
-3.2	-3.4	Musselshell River
-2.8	-2.5	Missouri River above Ft. Peck
-4.0	-4.0	Missouri River below Ft. Peck
-3.1	-3.2	Milk River
-3.8	-3.3	Dearborn River near Craig
-3.0	-2.9	Yellowstone River above Livingston
-3.1	-3.2	Shields River
-3.2	-3.5	Boulder River (Yellowstone)
-3.6	-3.3	Stillwater River
-3.8	-3.4	Rock/Red Lodge Creeks
-2.9	-2.5	Clarks Fork River
-3.1	-3.0	Yellowstone River above Bighorn River
-1.2	-3.3	Bighorn River below Bighorn Lake
-3.5	-2.9	Little Bighorn River
-2.2	-3.1	Yellowstone River below Bighorn River
-3.1	-3.2	Tongue River
-3.5	-2.9	Powder River

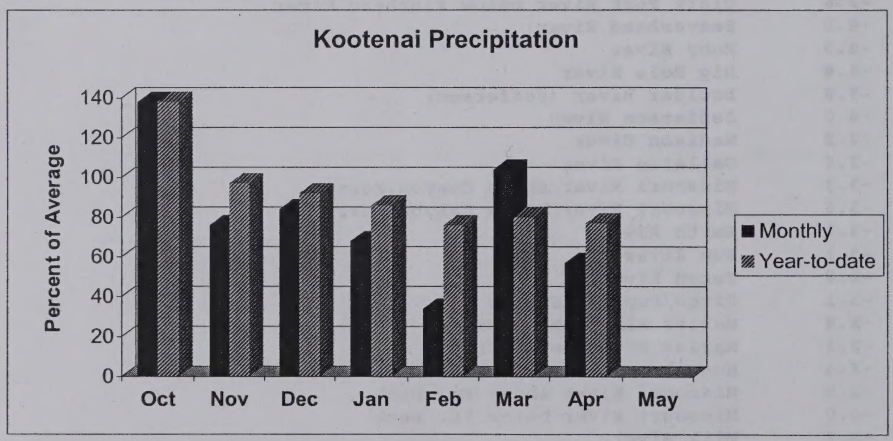
Kootenai River Basin in Montana

Snowpack in the Kootenai River Basin were severely below average and decreased 4 percent from April 1. Snow water content was 49 percent of average and 74 percent of last year and third lowest of record.



January maximum swe was established in 1997 and minimum was in 1977; February maximum swe was in 1997 and minimum swe was in 1977; March maximum swe was in 1972 and minimum swe was in 1977; April maximum swe was in 1974 and minimum swe was in 2001; May maximum swe was in 1974 and minimum swe was in 1977; and June maximum swe was in 1974 and minimum swe was in 1992. Average is for the period 1971 through 2000.

Mountain precipitation during April was 57 percent of average and 77 percent of last year. Valley precipitation during April was 56 percent of average and 37 percent of last year. Mountain and valley water year precipitation, beginning October 1, 2004, was 77 percent of average and 89 percent of last year.



Lake Koocanusa storage was 208 percent of average and 109 percent of last year.

Seasonal volume and snow melt peak flows and dates are discussed in the statewide summary section.

Surface Water Supply Index (SWSI) was -2.1 in the Tobacco River; -3.1 in the Kootenai Ft. Steele to Libby Dam; -0.5 in the Kootenai River below Libby Dam; -3.5 in the Fisher River; and -3.4 in the Yaak River.

KOOTENAI RIVER BASIN in Montana
Streamflow Forecasts - May 1, 2005

Forecast Point	Forecast Period	<<====== Drier ====== Future Conditions ======= Wetter =====>> Chance Of Exceeding * 90% (1000AF)	70% (1000AF)	50% (1000AF)	50% (% AVG.)	30% (1000AF)	10% (1000AF)	30-Yr Avg. (1000AF)
TOBACCO RIVER nr Eureka	MAY-JUL	47	65	77	70	89	107	110
	MAY-SEP	52	73	87	70	101	122	124
LIBBY RES Inflow (1,2)	MAY-JUL	2400	3230	3600	70	3970	4800	5120
	MAY-SEP	3170	4000	4370	71	4740	5570	6120
FISHER RIVER nr Libby	MAY-JUL	46	58	67	43	87	117	155
	MAY-SEP	53	68	78	46	100	132	170
YAAK RIVER nr Troy	MAY-JUL	86	132	162	46	192	237	350
	MAY-SEP	96	146	176	48	206	256	370
KOOTENAI at Leonia (1,2)	MAY-JUL	3560	4080	4320	70	4560	5080	6170
	MAY-SEP	4240	4820	5090	70	5360	5940	7250

KOOTENAI RIVER BASIN in Montana
Reservoir Storage (1000 AF) - End of April

Reservoir	Usable Capacity	*** Usable Storage *** This Year	Last Year	Avg
LAKE KOOCANUSA	5748.0	4045.0	3714.0	1948.9

KOOTENAI RIVER BASIN in Montana
Watershed Snowpack Analysis - May 1, 2005

Watershed	Number of Data Sites	This Year as % of Last Yr	Average
KOOTENAY in CANADA	14	86	56
KOOTENAI MAINTSTEM	4	73	51
TOBACCO	3	90	62
FISHER	5	52	35
YAAK	8	79	47
KOOTENAI in MONTANA	19	74	49
KOOTENAI ab BONNERS FERRY	33	78	51

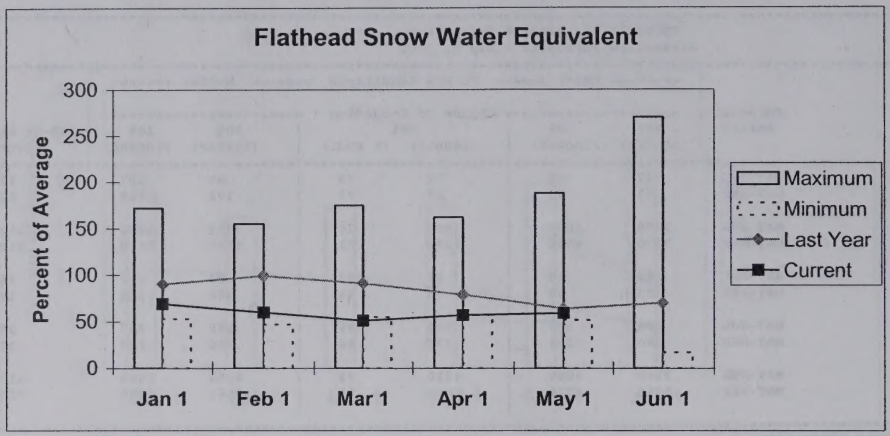
* 90%, 70%, 50%, 30%, and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the table.

The average is computed for the 1971-2000 base period.

(1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
(2) - The value is natural volume - actual volume may be affected by upstream water management.
(3) - Median value used in place of average. The value listed under 30% is actually a 25% exceedance level. The value listed under 70% is actually a 75% exceedance level. Forecast issued in cooperation with Alberta Environment.

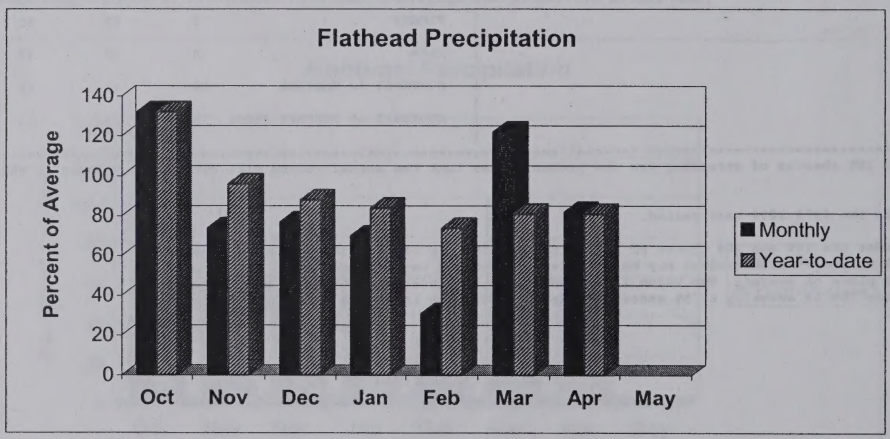
Flathead River Basin

Snowpack in the Flathead River Basin were well below average and increased 2 percent from April 1. Snow water content was 59 percent of average and 93 percent of last year and has set a new record low.



January maximum swe was established in 1997 and minimum was in 2001; February maximum swe was in 1972 and minimum was in 2001; March maximum swe was in 1972 and minimum was in 2001; April maximum swe was in 1972 and minimum was in 2001; May maximum swe was in 1972 and minimum was in 1992; and June maximum swe was in 1974 and minimum was in 1992. Average is for the period 1971 through 2000.

Mountain precipitation during April was 79 percent of average and 93 percent of last year. Valley precipitation during April was 110 percent of average and 76 percent of last year. Mountain and valley water year precipitation, beginning October 1, 2004, was 81 percent of average and 92 percent of last year.



Combined Camas reservoir storage was not available; Lower Jocko Lake was not available; combined Mission Valley reservoir storage was not available; Hungry Horse storage was 160 percent of average and 111 percent of last year; and Flathead Lake storage was 156 percent of average and 120 percent of last year.

Seasonal volume and snow melt peak flows and dates are discussed in the statewide summary section.

Surface Water Supply Index (SWSI) was -2.9 in the North Fork Flathead River; -3.2 in the Middle Fork Flathead River; -0.7 in the South Fork Flathead River; -2.3 in the Flathead River at Columbia Falls; -3.5 in the Stillwater/Whitefish Rivers; -3.20 in the Swan River; -2.0 in the Flathead River at Polson; not available in the Mission Valley; and not available in the Little Bitterroot River.

FLATHEAD RIVER BASIN
Streamflow Forecasts - May 1, 2005

Forecast Point	Forecast Period	<<====== Drier ====== Future Conditions ======= Wetter =====>> Chance Of Exceeding * 90% (1000AF)	70% (1000AF)	50% (1000AF)	50% (% AVG.)	30% (1000AF)	10% (1000AF)	30-Yr Avg. (1000AF)
NF FLATHEAD nr Columbia Falls	MAY-JUL	775	905	995	70	1085	1215	1420
	MAY-SEP	890	1040	1140	71	1240	1390	1600
MF FLATHEAD nr West Glacier	MAY-JUL	740	845	920	66	990	1100	1390
	MAY-SEP	815	940	1020	66	1100	1220	1540
HUNGRY HORSE Reservoir Inflow (1,2)	MAY-JUL	780	1000	1100	64	1200	1420	1710
	MAY-SEP	865	1100	1200	65	1300	1530	1840
FLATHEAD at Columbia Falls (2)	MAY-JUL	2450	2840	3110	67	3380	3770	4630
	MAY-SEP	2760	3190	3490	68	3790	4220	5110
STILLWATER nr Whitefish	MAY-JUL	32	59	78	52	97	124	150
	MAY-SEP	35	66	87	51	108	139	170
WHITEFISH nr Kalispell	MAY-JUL	35	47	55	63	63	75	88
	MAY-SEP	41	55	65	64	75	89	101
ASHLEY CREEK nr Marion (2)	MAY-JUL	0.5	0.8	1.0	22	1.8	3.0	4.5
	MAY			0.6	21			2.8
SWAN RIVER nr Bigfork	MAY-JUL	250	280	305	65	330	360	470
	MAY-SEP	290	330	360	66	390	430	550
Flathead Lake inflow (1,2)	MAY-JUL	2620	3290	3600	68	3910	4580	5320
	MAY-SEP	2870	3610	3950	68	4290	5030	5840

FLATHEAD RIVER BASIN
Reservoir Storage (1000 AF) - End of April

Reservoir	Usable Capacity	*** Usable Storage *** This Year	Last Year	Avg
CAMAS (4)		NO REPORT		
LOWER JOCKO LAKE		NO REPORT		
MISSION VALLEY (8)		NO REPORT		
HUNGRY HORSE	3451.0	3125.0	2828.0	1954.8
FLATHEAD LAKE	1791.0	1457.0	1218.0	931.9

FLATHEAD RIVER BASIN
Watershed Snowpack Analysis - May 1, 2005

Watershed	Number of Data Sites	This Year as % of Last Yr	Average
NF FLATHEAD in CANADA	1	0	0
NF FLATHEAD in MONTANA	8	87	60
MIDDLE FORK FLATHEAD	5	86	51
SOUTH FORK FLATHEAD	7	95	65
STILLWATER-WHITEFISH	10	79	52
SWAN	7	95	70
MISSION VALLEY	4	112	70
LITTLE BITTERROOT-ASHLEY	6	182	20
JOCKO	5	102	68
FLATHEAD in MONTANA	38	93	59
FLATHEAD RIVER BASIN	39	93	58

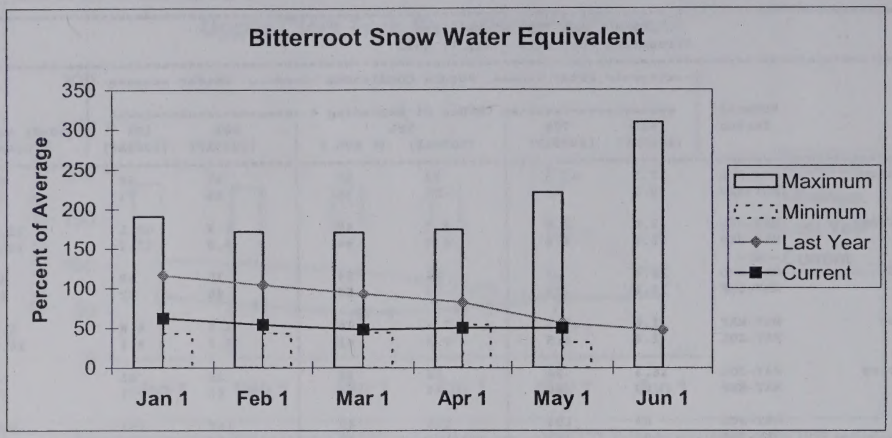
* 90%, 70%, 50%, 30%, and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the table.

The average is computed for the 1971-2000 base period.

(1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
(2) - The value is natural volume - actual volume may be affected by upstream water management.
(3) - Median value used in place of average. The value listed under 30% is actually a 25% exceedance level. The value listed under 70% is actually a 75% exceedance level. Forecast issued in cooperation with Alberta Environment.

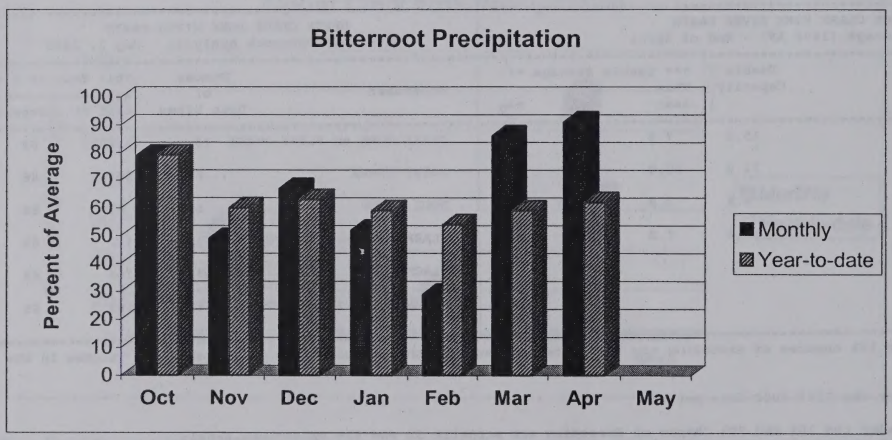
Bitterroot River Basin

Snowpack in the Bitterroot River Basin were well below average and has remained the same as April 1. Snow water content was 50 percent of average and 89 percent of last year and fourth lowest of record.



January maximum swe was established in 1997 and minimum swe in 1977; February maximum swe was in 1972 and minimum was in 1977; March maximum swe was in 1972 and minimum swe was in 1977; April maximum swe was in 1972 and minimum swe was in 2001; May maximum swe was in 1972 and minimum swe was in 1987; and June maximum swe was 1972 and 1974 and minimum swe was in 1987, 1992, 1994, and 2001. Average is for the period 1971 through 2000.

Mountain precipitation during April was 91 percent of average and 164 percent of last year. Valley precipitation during April was 95 percent of average and 133 percent of last year. Mountain and valley water year precipitation, beginning October 1, 2004, was 62 percent of average and 73 percent of last year.



Painted Rocks Lake storage was 92 percent of average and 63 percent of last year and Como storage was 121 percent of average and 117 percent of last year.

Seasonal volume and snow melt peak flows and dates are discussed in the statewide summary section.

Surface Water Supply Index (SWSI) was -3.9 in the Bitterroot River.

BITTERROOT RIVER BASIN
Streamflow Forecasts - May 1, 2005

Forecast Point	Forecast Period	<<====== Drier ====== Future Conditions ======= Wetter ======>> Chance Of Exceeding * 90% (1000AF)	70% (1000AF)	50% (1000AF)	50% (% AVG.)	30% (1000AF)	10% (1000AF)	30-Yr Avg. (1000AF)
WF BITTERROOT nr Conner (2)	MAY-JUL	40	49	55	44	69	90	125
	MAY-SEP	45	56	63	46	79	103	138
BITTERROOT nr Darby	MAY-JUL	142	170	189	47	229	289	405
	MAY-SEP	164	194	215	47	255	315	460
COMO RESERVOIR Inflow	MAY-JUL	31	39	45	68	51	59	66
	MAY-SEP	32	41	47	67	53	62	70
SKALKAHO CK nr Hamilton	MAY-JUL	11.0	15.6	18.8	47	26	35	40
	MAY-SEP	14.4	19.5	23	49	30	41	47
BITTERROOT at Missoula	MAY-JUL	305	420	495	45	570	685	1100
	MAY-SEP	350	470	550	46	630	750	1210

BITTERROOT RIVER BASIN
Reservoir Storage (1000 AF) - End of April

Reservoir	Usable Capacity	*** Usable Storage *** This Year	Last Year	Avg
PAINTED ROCKS LAKE	31.7	15.8	25.0	17.1
COMO	34.9	25.2	21.5	20.9

BITTERROOT RIVER BASIN
Watershed Snowpack Analysis - May 1, 2005

Watershed	Number of Data Sites	This Year as % of Last Yr	Average
WEST FORK BITTERROOT	3	85	49
EAST SIDE BITTERROOT	5	92	55
WEST SIDE BITTERROOT	3	84	49
BITTERROOT RIVER BASIN	10	89	50

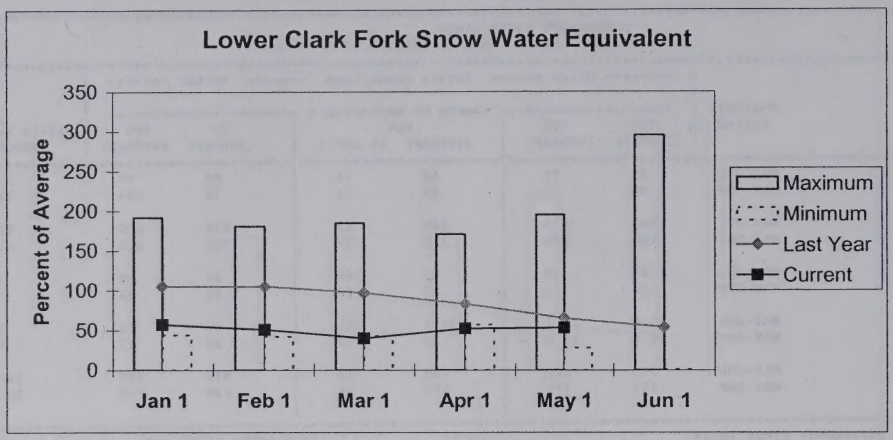
* 90%, 70%, 50%, 30%, and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the table.

The average is computed for the 1971-2000 base period.

(1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
(2) - The value is natural volume - actual volume may be affected by upstream water management.
(3) - Median value used in place of average. The value listed under 30% is actually a 25% exceedance level. The value listed under 70% is actually a 75% exceedance level. Forecast issued in cooperation with Alberta Environment.

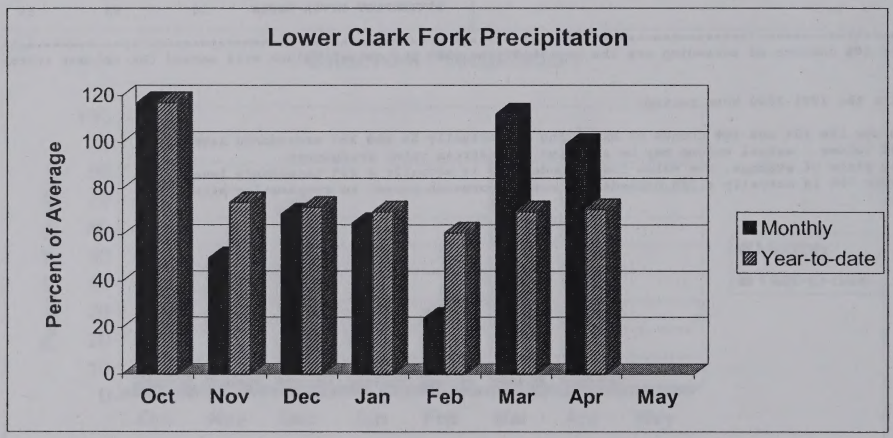
Lower Clark Fork River Basin

Snowpack in the Lower Clark Fork River Basin were well below average and increased 1 percent from April 1. Snow water content was 53 percent of average and 80 percent of last year and third lowest of record.



January maximum swe was established in 1997 and minimum swe was in 1977; February maximum swe was in 1972 and minimum swe was in 1977; March maximum swe was in 1972 and minimum was in 1977; April maximum swe was in 1972 and minimum swe was in 1981; May maximum swe was in 1972 and minimum swe was in 1977; and June maximum swe was in 1974 and minimum swe was in 1977. Average is for the period 1971 through 2000.

Mountain precipitation during April was 99 percent of average and 154 percent of last year. Valley precipitation during April was 100 percent of average and 141 percent of last year. Mountain and valley water year precipitation, beginning October 1, 2004, was 71 percent of average and 88 percent of last year.



Noxon Rapids storage was 118 percent of average and 104 percent of last year.

Seasonal volume and snow melt peak flows and dates are discussed in the statewide summary section.

Surface Water Supply Index (SWSI) was -3.4 in the Clark Fork River below Bitterroot River and -2.5 in the Clark Fork River below Flathead River.

LOWER CLARK FORK RIVER BASIN
Streamflow Forecasts - May 1, 2005

Forecast Point	Forecast Period	<<====== Drier ====== Future Conditions ======= Wetter =====>> Chance Of Exceeding * 90% (1000AF)	70% (1000AF)	50% (1000AF)	50% (% AVG.)	30% (1000AF)	10% (1000AF)	30-Yr Avg. (1000AF)
CLARK FORK blw Missoula	MAY-JUL	660	920	1100	48	1280	1540	2290
	MAY-SEP	790	1070	1260	49	1450	1730	2580
CLARK FORK at St. Regis (1)	MAY-JUL	745	1230	1450	49	1670	2150	2980
	MAY-SEP	890	1430	1680	50	1930	2470	3370
CLARK FORK nr Plains (1,2)	MAY-JUL	3760	4810	5280	61	5750	6800	8630
	MAY-SEP	4210	5370	5900	61	6430	7590	9610
THOMPSON nr Thompson Falls	MAY-JUL	32	52	66	42	80	100	159
	MAY-SEP	46	67	81	44	95	116	185
PROSPECT CREEK at Thompson Falls	MAY-JUL	28	34	38	44	42	48	87
	MAY-SEP	35	41	45	47	49	55	96
CLARK FK at Whitehorse Rpds (1,2)	MAY-JUL	4080	5320	5890	61	6460	7700	9590
	MAY-SEP	4570	5960	6590	62	7220	8610	10700

LOWER CLARK FORK RIVER BASIN
Reservoir Storage (1000 AF) - End of April

Reservoir	Usable Capacity	*** Usable Storage *** This Year	Last Year	Avg
NOXON RAPIDS	335.0	320.3	307.9	272.3

LOWER CLARK FORK RIVER BASIN
Watershed Snowpack Analysis - May 1, 2005

Watershed	Number of Data Sites	This Year as % of Last Yr	Average
LOWER CLARK FORK BASIN	12	80	53

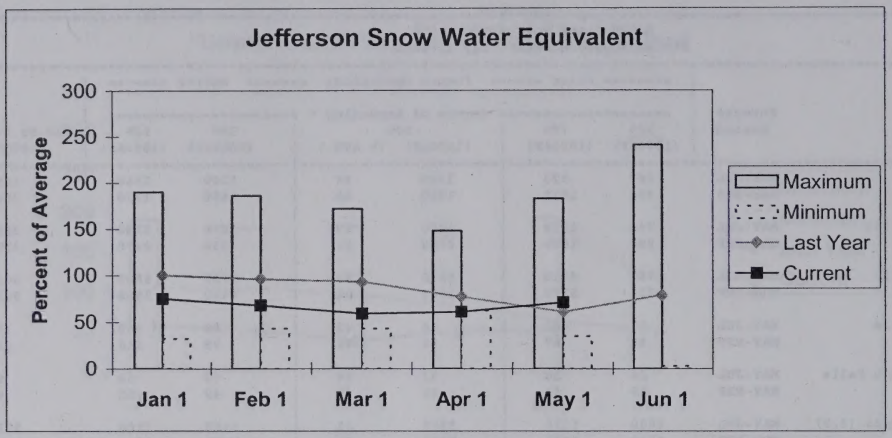
* 90%, 70%, 50%, 30%, and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the table.

The average is computed for the 1971-2000 base period.

(1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
(2) - The value is natural volume - actual volume may be affected by upstream water management.
(3) - Median value used in place of average. The value listed under 30% is actually a 25% exceedance level. The value listed under 70% is actually a 75% exceedance level. Forecast issued in cooperation with Alberta Environment.

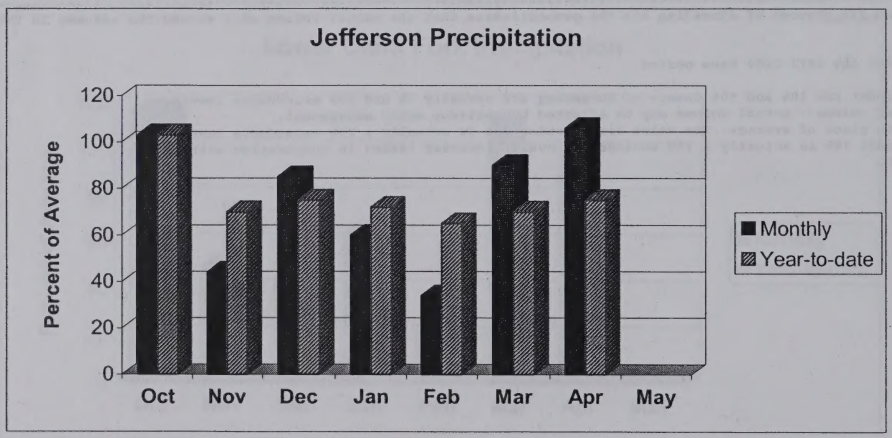
Jefferson River Basin

Snowpack in the Jefferson River Basin were below average and increased 10 percent from April 1. Snow water content was 71 percent of average and 115 percent of last year.



January maximum swe was established in 1997 and minimum swe was in 1977; February maximum swe was in 1997 and minimum was in 1977; March maximum swe was in 1972 and minimum was in 1977; April maximum swe was in 1997 and minimum was in 1977; May maximum swe was in 1975 and minimum swe was in 1977; and June maximum swe was in 1982 and minimum in 1987. Average is for the period 1971 through 2000.

Mountain precipitation during April was 102 percent of average and 137 percent of last year. Valley precipitation during April was 129 percent of average and 146 percent of last year. Mountain and valley water year precipitation, beginning October 1, 2004, was 75 percent of average and 90 percent of last year.



Lima storage was 112 percent of average and 259 percent of last year; Clark Canyon storage was 39 percent of average and 111 percent of last year; and Ruby River storage was 101 percent of average and 108 percent of last year.

Seasonal volume and snow melt peak flows and dates are discussed in the statewide summary section.

Surface Water Supply Index (SWSI) was -3.5 in the Beaverhead River; -1.5 in the Ruby River; -3.3 in the Big Hole River; -3.6 in the Boulder River; and -3.9 in the Jefferson River as a whole.

JEFFERSON RIVER BASIN
Streamflow Forecasts - May 1, 2005

Forecast Point	Forecast Period	<<====== Drier ====== Future Conditions ======= Wetter ======>> Chance Of Exceeding * 90% (1000AF)	70% (1000AF)	50% (1000AF)	50% (% AVG.)	30% (1000AF)	10% (1000AF)	30-Yr Avg. (1000AF)
LIMA RESERVOIR Inflow (2)	MAY-JUL	27	39	50	71	64	93	70
	MAY-SEP	29	43	55	71	71	103	78
CLARK CANYON Inflow (2)	MAY-JUL	8.7	15.1	22	24	32	56	90
	MAY-SEP	20	31	43	37	59	94	116
BEAVERHEAD RIVER at Barretts (2)	MAY-JUL	24	38	48	40	58	72	120
	MAY-SEP	52	66	75	49	84	98	153
RUBY RIVER Reservoir Inflow	MAY-JUL	40	45	49	66	53	58	74
	MAY-SEP	51	57	61	67	65	71	91
BIG HOLE RIVER at Wisdom	MAY-JUL	6.7	16.1	29	31	38	59	95
	MAY-SEP	5.0	16.0	32	31	40	64	104
BIG HOLE RIVER nr Melrose	MAY-JUL	91	189	255	49	320	420	520
	MAY-SEP	104	212	285	50	360	465	575
BOULDER RIVER nr Boulder	MAY-JUL	4.8	20	36	53	52	75	68
	MAY-SEP	6.0	24	41	55	58	84	75
WILLOW CREEK Reservoir Inflow	MAY-JUL	1.2	3.6	7.5	49	11.4	17.3	15.2
	MAY-SEP	1.6	4.4	9.1	52	13.8	21	17.5
JEFFERSON RIVER nr Three Forks (2)	MAY-JUL	36	109	230	38	350	530	600
	MAY-SEP	48	153	285	42	415	610	680

JEFFERSON RIVER BASIN
Reservoir Storage (1000 AF) - End of April

Reservoir	Usable Capacity	*** Usable Storage *** This Year	Last Year	Avg
LIMA	84.0	64.4	24.9	57.5
CLARK CANYON	255.6	61.9	56.0	160.6
RUBY RIVER	38.8	36.5	33.8	36.3

JEFFERSON RIVER BASIN
Watershed Snowpack Analysis - May 1, 2005

Watershed	Number of Data Sites	This Year as % of Last Yr	Average
BEAVERHEAD	16	131	74
RUBY	11	105	73
BIGHOLE	16	102	61
BOULDER	8	122	74
JEFFERSON RIVER BASIN	42	115	71

* 90%, 70%, 50%, 30%, and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the table.

The average is computed for the 1971-2000 base period.

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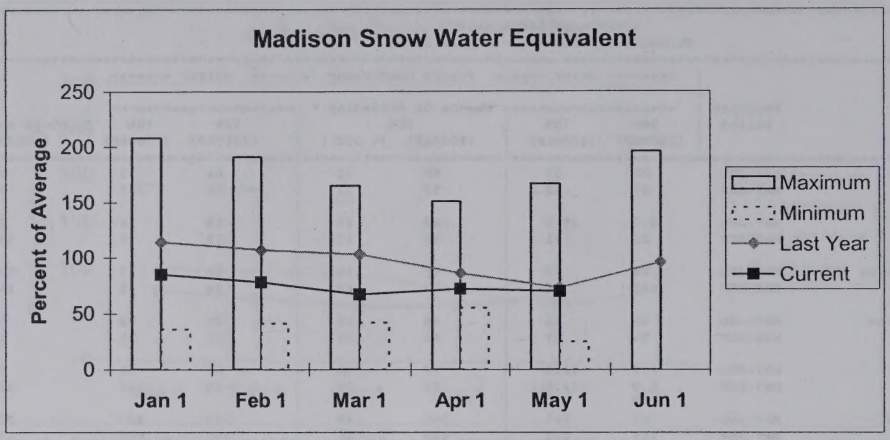
(2) - The value is natural volume - actual volume may be affected by upstream water management.
(3) - Median value used in place of average. The value listed under 30% is actually a 25% exceedance level. The value listed under 70% is actually a 75% exceedance level. Forecast issued in cooperation with Alberta Environment.

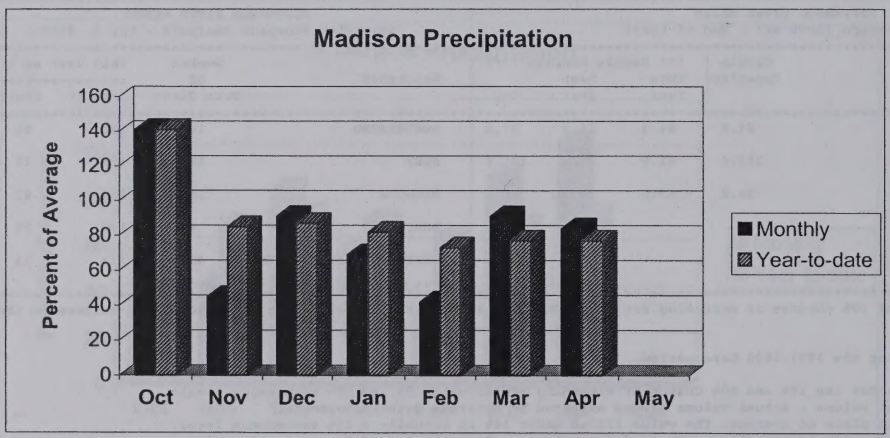
Madison River Basin

Snowpack in the Madison River Basin were below average and decreased 1 percent from April 1. Snow water content was 70 percent of average and 99 percent of last year.



January maximum swe was established in 1997 and minimum swe was in 1977; February maximum swe was in 1997 and minimum was in 1977; March maximum swe was in 1997 and minimum was in 1977; April maximum swe was in 1997 and minimum was in 1977; May maximum swe was in 1997 and minimum swe was in 1977; and June maximum swe was in 1995 and minimum in 2001. Average is for the period 1971 through 2000.

Mountain and valley precipitation during April was 84 percent of average and 121 percent of last year. Mountain and valley water year precipitation, beginning October 1, 2004, was 77 percent of average and 87 percent of last year.



Ennis Lake storage was 97 percent of average and 116 percent of last year and Hebgen Lake storage was 116 percent of average and 111 percent of last year.

Seasonal volume and snow melt peak flows and dates are discussed in the statewide summary section.

Surface Water Supply Index (SWSI) was -1.8 for the Madison River.

MADISON RIVER BASIN
Streamflow Forecasts - May 1, 2005

Forecast Point	Forecast Period	<<====== Drier ====== Future Conditions ======= Wetter =====>> Chance Of Exceeding * 90% (1000AF)	70% (1000AF)	50% (1000AF)	50% (% AVG.)	30% (1000AF)	10% (1000AF)	30-Yr Avg. (1000AF)
HEBGEN Reservoir Inflow	MAY-JUL	215	245	270	82	295	325	330
	MAY-SEP	300	340	365	83	390	430	440
ENNIS Reservoir Inflow (2)	MAY-JUL	355	400	435	75	470	515	580
	MAY-SEP	480	540	580	77	620	680	750

MADISON RIVER BASIN
Reservoir Storage (1000 AF) - End of April

Reservoir	Usable Capacity	*** Usable Storage *** This Year	Last Year	Avg
ENNIS LAKE	41.0	32.8	28.2	33.8
HEBGEN LAKE	377.5	294.5	264.5	254.6

MADISON RIVER BASIN
Watershed Snowpack Analysis - May 1, 2005

Watershed	Number of Data Sites	This Year as % of Last Yr	Average
MADISON abv HEBGEN LAKE	6	101	74
MADISON blw HEBGEN LAKE	12	98	68
MADISON RIVER BASIN	18	99	70

* 90%, 70%, 50%, 30%, and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the table.

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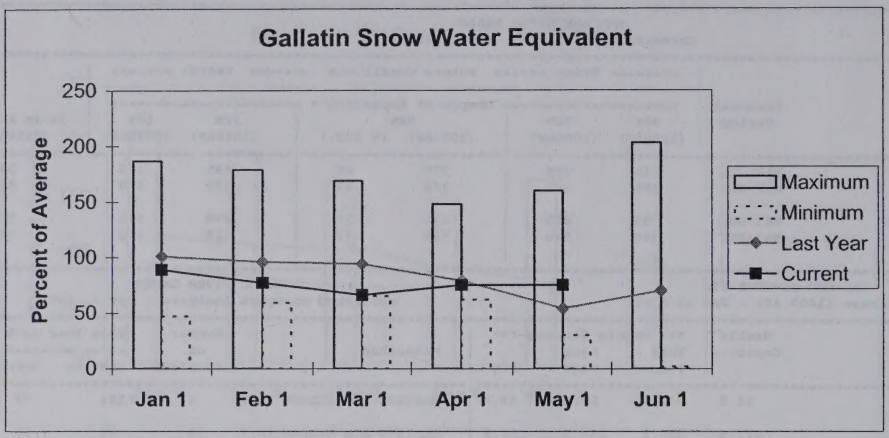
(2) - The value is natural volume - actual volume may be affected by upstream water management.
(3) - Median value used in place of average. The value listed under 30% is actually a 25% exceedance level. The value listed under 70% is actually a 75% exceedance level. Forecast issued in cooperation with Alberta Environment.

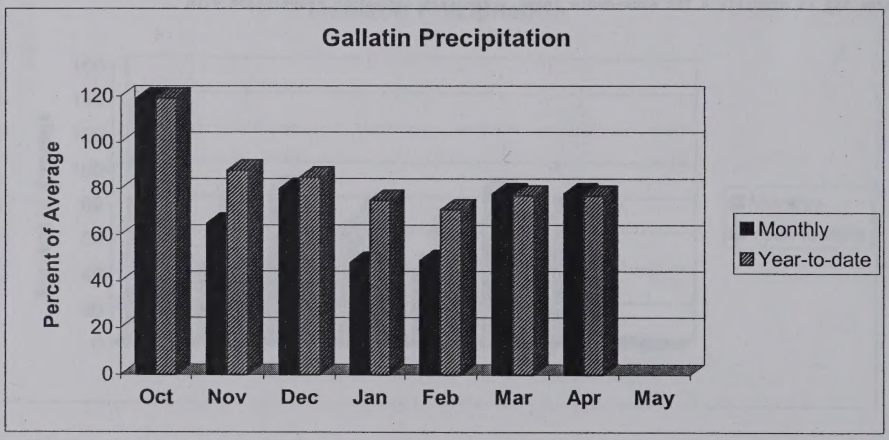
Gallatin River Basin

Snowpack in the Gallatin River Basin were below average and remained the same as April 1. Snow water content was 75 percent of average and 139 percent of last year.



January maximum swe was established in 1997 and minimum swe was in 1966; February maximum swe was in 1997 and minimum was in 1977; March maximum swe was in 1997 and minimum was in 1977; April maximum swe was in 1997 and minimum was in 2001; May maximum swe was in 1970 and minimum swe was in 1987; and June maximum swe was in 1975 and minimum in 2001. Average is for the period 1971 through 2000.

Mountain precipitation during April was 76 percent of average and 118 percent of last year. Valley precipitation during April was 118 percent of average and 129 percent of last year. Mountain and valley water year precipitation, beginning October 1, 2004, was 77 percent of average and 93 percent of last year.



Middle Creek storage was 143 percent of average and 100 percent of last year.

Seasonal volume and snow melt peak flows and dates are discussed in the statewide summary section.

Surface Water Supply Index (SWSI) was -3.3 for the Gallatin River.

GALLATIN RIVER BASIN
Streamflow Forecasts - May 1, 2005

Forecast Point	Forecast Period	<<====== Drier ====== Future Conditions ======= Wetter =====>> Chance Of Exceeding * 90% (1000AF)	70% (1000AF)	50% (1000AF)	50% (% AVG.)	30% (1000AF)	10% (1000AF)	30-Yr Avg. (1000AF)
GALLATIN RIVER nr Gateway	MAY-JUL	235	265	290	72	315	345	405
	MAY-SEP	280	320	350	73	380	420	480
HYALITE RESERVOIR Inflow	MAY-JUL	11.5	13.8	15.4	77	17.0	19.2	20
	MAY-SEP	13.5	16.0	17.7	77	19.9	22	23
GALLATIN RIVER at Logan (2)	MAY-JUL	175	225	260	61	295	345	425
	MAY-SEP	220	280	320	63	360	420	505

GALLATIN RIVER BASIN
Reservoir Storage (1000 AF) - End of April

Reservoir	Usable Capacity	*** Usable Storage *** This Year	Last Year	Avg
MIDDLE CREEK	10.2	7.6	7.6	5.3

GALLATIN RIVER BASIN
Watershed Snowpack Analysis - May 1, 2005

Watershed	Number of Data Sites	This Year as % of Last Yr	Average
UPPER GALLATIN	7	111	67
HYALITE	3	145	82
BRIDGER	3	285	93
GALLATIN RIVER BASIN	13	139	75

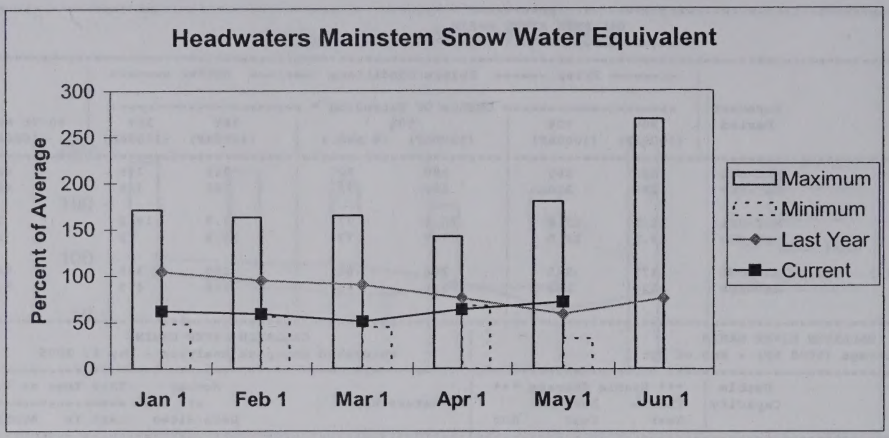
* 90%, 70%, 50%, 30%, and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the table.

The average is computed for the 1971-2000 base period.

(1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
(2) - The value is natural volume - actual volume may be affected by upstream water management.
(3) - Median value used in place of average. The value listed under 30% is actually a 25% exceedance level. The value listed under 70% is actually a 75% exceedance level. Forecast issued in cooperation with Alberta Environment.

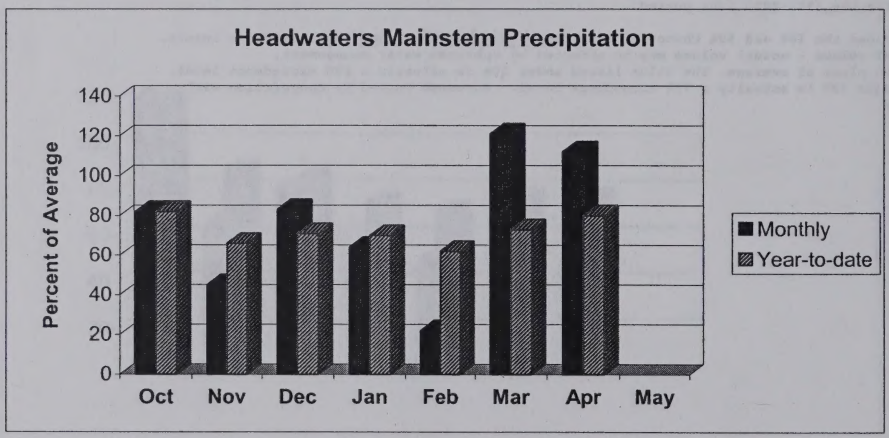
Missouri Mainstem River Basin

Snowpack in the Headwaters Missouri Mainstem River Basin were below average and increased 8 percent from April 1. Snow water content was 72 percent of average and 123 percent of last year.



January maximum swe was established in 1997 and minimum swe in 1977; February maximum swe was in 1972 and minimum swe was in 1977; March maximum swe in 1972 and minimum swe was in 1977; April maximum swe was in 1972 and minimum swe was in 1961 and 1966; May maximum swe was in 1975 and minimum swe was in 1977; and June maximum swe was in 1975 and minimum swe was in 1992. Average is for the period 1971 through 2000.

Mountain precipitation during April was 99 percent of average and 98 percent of last year. Valley precipitation during April was 127 percent of average and 131 percent of last year. Mountain and valley water year precipitation, beginning October 1, 2004, was 80 percent of average and 85 percent of last year.



Canyon Ferry Lake storage was 94 percent of average and 101 percent of last year; Helena Valley storage was 117 percent of average and 99 percent of last year; Lake Helena storage was 95 percent of average and 104 percent of last year; Hauser & Helena storage was 124 percent of average and 102 percent of last year; Holter Lake storage was 105 percent of average and 100 percent of last year; and Fort Peck Lake storage was 58 percent of average and 90 percent of last year.

Seasonal volume and snow melt peak flows and dates are discussed in the statewide summary section.

Surface Water Supply Index (SWSI) was -2.8 in the Missouri River above Canyon Ferry; -3.5 in the Missouri River below Canyon Ferry; -2.8 in the Missouri River above Fort Peck; and -4.0 in the Missouri River below Fort Peck.

MISSOURI MAINSTEM RIVER BASIN
Streamflow Forecasts - May 1, 2005

Forecast Point	Forecast Period	<<====== Drier ====== Future Conditions ======= Wetter =====>> Chance Of Exceeding * 90% (1000AF)	70% (1000AF)	50% (1000AF)	50% (% AVG.)	30% (1000AF)	10% (1000AF)	30-Yr Avg. (1000AF)
MISSOURI RIVER at Toston (2)	MAY-JUL	415	745	970	57	1200	1530	1700
	MAY-SEP	530	930	1200	59	1470	1870	2040
PRICKLY PEAR CREEK nr Clancy	MAY-JUL	1.6	6.0	11.4	64	16.8	24	17.8
	MAY-SEP	2.4	7.0	13.2	60	19.2	28	22
DEARBORN nr Craig	MAY-JUL	11.0	31	55	52	79	115	106
	MAY-SEP	13.0	38	64	58	90	127	110
MISSOURI RIVER at Fort Benton (2)	MAY-JUL	781	1269	1600	64	1931	2420	2500
	MAY-SEP	971	1572	1980	64	2386	2991	3080
MISSOURI RIVER at Virgelle (2)	MAY-JUL	964	1527	1910	66	2293	2857	2890
	MAY-SEP	1174	1856	2320	66	2786	3471	3500
MISSOURI RIVER nr Landusky (2)	MAY-JUL	925	1592	2000	65	2408	3050	3080
	MAY-SEP	1130	1933	2430	65	2926	3710	3750
MISSOURI RIVER below Fort Peck (2)	MAY-JUL	1051	1652	2060	67	2470	3070	3080
	MAY-SEP	1268	1984	2470	67	2956	3671	3670
LAKE SAKAKAWEA Inflow (2)	MAY-JUL	3010	4251	5360	64	6465	7700	8370
	MAY-SEP	3530	5000	6300	64	7601	9030	9810

MISSOURI MAINSTEM RIVER BASIN
Reservoir Storage (1000 AF) - End of April

Reservoir	Usable Capacity	*** Usable Storage *** This Year	Last Year	Avg
CANYON FERRY LAKE	2043.0	1390.0	1376.0	1483.5
HELENA VALLEY	9.2	8.9	9.0	7.6
LAKE HELENA	12.7	11.1	10.7	11.7
HAUSER & HELENA	74.6	74.8	73.1	60.1
HOLTER LAKE	81.9	81.1	81.2	77.1
FORT PECK LAKE	18910.0	8779.0	9712.0	15122.0

MISSOURI MAINSTEM RIVER BASIN
Watershed Snowpack Analysis - May 1, 2005

Watershed	Number of Data Sites	This Year as % of Last Yr	Average
HEADWATERS MAINSTEM	9	123	72
SMITH-JUDITH-MUSSELSHELL	14	145	90
SUN-TETON-MARIAS	13	99	47
MAINSTEM ab FT PECK RES	35	125	68
MILK RIVER BASIN	4	67	9
MISSOURI MAINSTEM BASIN	38	126	69

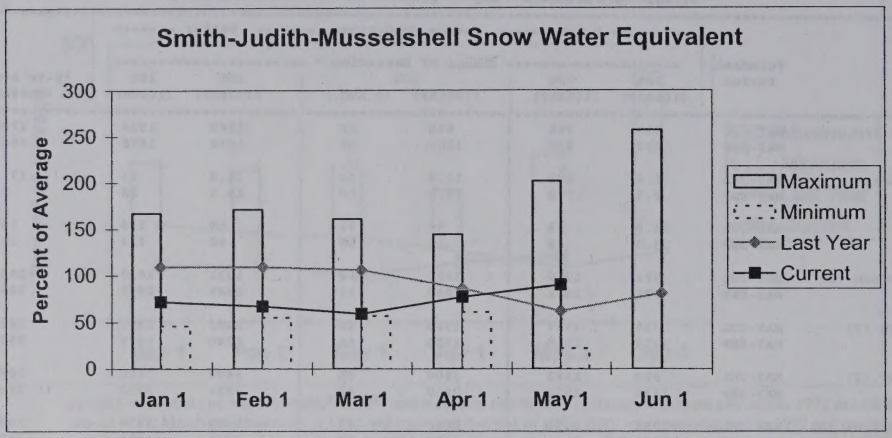
* 90%, 70%, 50%, 30%, and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the table.

The average is computed for the 1971-2000 base period.

(1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
(2) - The value is natural volume - actual volume may be affected by upstream water management.
(3) - Median value used in place of average. The value listed under 30% is actually a 25% exceedance level. The value listed under 70% is actually a 75% exceedance level. Forecast issued in cooperation with Alberta Environment.

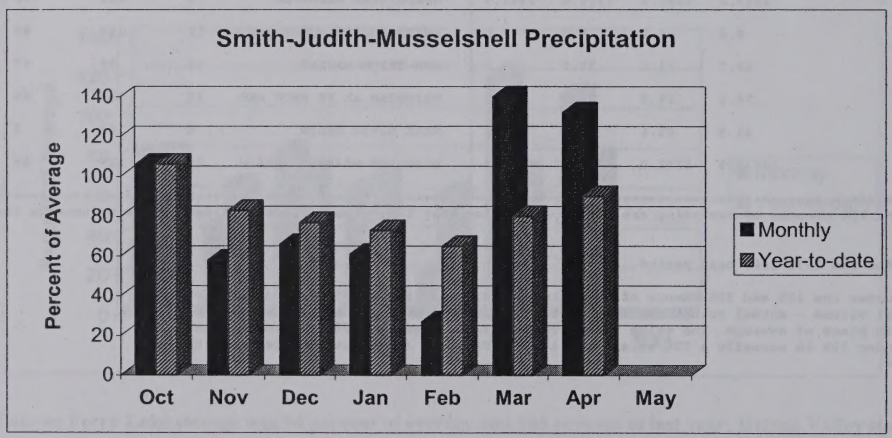
Smith-Judith-Musselshell River Basins

Snowpack in the Smith-Judith-Musselshell River Basins were below average and increased 13 percent from April 1. Snow water content in the Smith River Basin was 89 percent of average and 160 percent of last year; in the Judith River Basin was 99 percent of average and 130 percent of last year; and in the Musselshell Basin River was 79 percent of average and 152 percent of last year.



January maximum swe was established in 1997 and minimum swe in 1988; February maximum swe was in 1978 and minimum swe was in 1987; March maximum swe was in 1978 and minimum swe was in 1987; April maximum swe was in 1970 and minimum swe was in 1992; and May maximum swe was in 1970 and minimum swe was in 1987; and June maximum swe was in 1967 and minimum swe was in 1987, 1992, 1994,and 2001. Average is for the period 1971 through 2000.

Mountain and valley precipitation during April in the Smith-Belts was 111 percent of average and 127 percent of last year; in the Judith was 133 percent of average and 183 percent of last year; and in the Musselshell was 158 percent of average and 268 percent of last year. Mountain and valley water year precipitation, beginning October 1, 2004, was 90 percent of average and 95 percent of last year.



Smith River storage was 92 percent of average and 101 percent of last year; Bair storage was 69 percent of average and 100 percent of last year; Martinsdale storage was 36 percent of average and 86 percent of last year; and Deadman's Basin was 37 percent of average and 105 percent of last year.

Seasonal volume and snow melt peak flows and dates are discussed in the statewide summary section.

Surface Water Supply Index (SWSI) was -2.3 in the Smith River and -3.2 in the Musselshell River.

SMITH-JUDITH-MUSSELSHELL RIVER BASINS
Streamflow Forecasts - May 1, 2005

Forecast Point	Forecast Period	<<====== Drier ====== Future Conditions ======= Wetter =====>> Chance Of Exceeding * 90% (1000AF)	70% (1000AF)	50% (1000AF)	50% (% AVG.)	30% (1000AF)	10% (1000AF)	30-Yr Avg. (1000AF)
SHEEP CREEK nr White Sulphur Spgs.	MAY-JUL	8.0	10.4	12.0	80	13.6	16.0	15.1
	MAY-SEP	9.6	12.5	14.5	80	16.5	19.0	18.1
SMITH RIVER abv Eagle Creek	MAY-JUL	35	64	84	56	104	133	150
	MAY-SEP	45	82	107	58	132	169	185
NF MUSSELSHELL nr Delpine	MAY-JUL	0.4	1.6	2.5	68	3.4	4.6	3.7
	MAY-SEP	0.7	2.2	3.2	70	4.2	5.7	4.6
SF MUSSELSHELL abv Martinsdale	MAY-JUL	0.5	11.9	25	54	38	57	46
	MAY-SEP	1.0	14.3	28	56	42	62	50
MUSSELSHELL at Harlowton (2)	MAY-JUL	0.6	17.0	29	45	41	58	65
	MAY-SEP	0.7	19.0	32	46	45	63	69
MUSSELSHELL nr Roundup (2)	MAY-JUL	0.0	5.6	17.6	22	30	48	80
	MAY-SEP	0.0	4.9	17.9	22	31	50	82

SMITH-JUDITH-MUSSELSHELL RIVER BASINS
Reservoir Storage (1000 AF) - End of April

Reservoir	Usable Capacity	*** Usable Storage *** This Year	Last Year	Avg
SMITH RIVER	10.6	8.3	8.2	9.0
BAIR	7.0	3.8	3.8	5.5
MARTINSDALE	23.1	5.0	5.8	13.8
DEADMAN'S BASIN	72.2	21.8	20.8	58.9

SMITH-JUDITH-MUSSELSHELL RIVER BASINS
Watershed Snowpack Analysis - May 1, 2005

Watershed	Number of Data Sites	This Year as % of Last Yr	Average
SMITH	8	160	89
JUDITH	6	130	99
MUSSELSHELL	5	152	79
SMITH-JUDITH-MUSSELSHELL	14	145	90

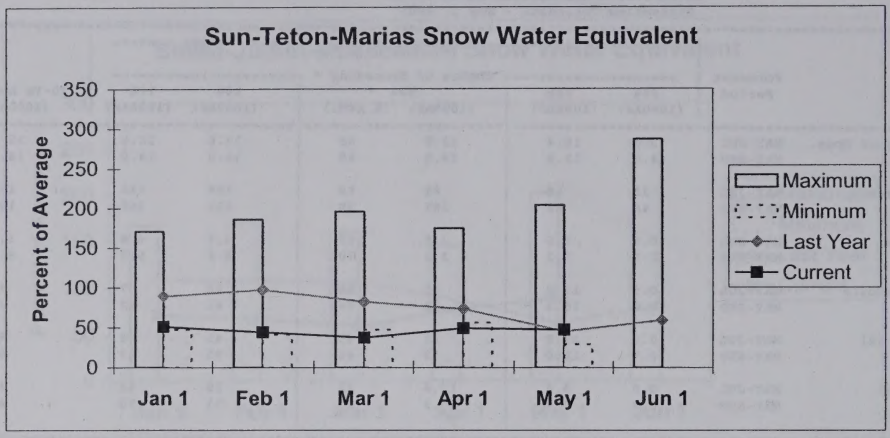
* 90%, 70%, 50%, 30%, and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the table.

The average is computed for the 1971-2000 base period.

(1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
(2) - The value is natural volume - actual volume may be affected by upstream water management.
(3) - Median value used in place of average. The value listed under 30% is actually a 25% exceedance level. The value listed under 70% is actually a 75% exceedance level. Forecast issued in cooperation with Alberta Environment.

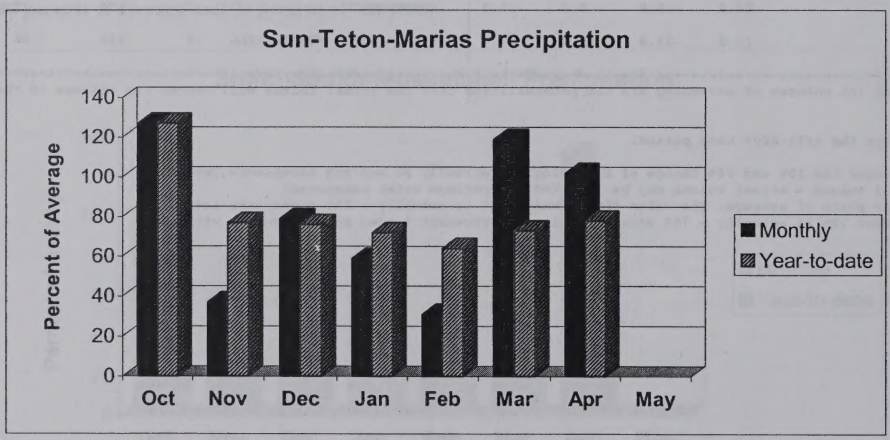
Sun-Teton-Marias River Basins

Snowpack in the Sun-Teton-Marias River Basins were severely below average and decreased 2 percent from April 1 and fourth lowest of record. Snow water content in the Sun River Basin was 51 percent of average and 95 percent of last year; in the Teton River Basin was 46 percent of average and 116 percent of last year; and in the Marias River Basin was 43 percent of average and 97 percent of last year.



January maximum swe was established in 1997 and minimum swe was in 1988; February maximum swe was in 1972 and minimum swe was in 2001; March maximum swe was in 1972 and minimum swe was in 1984; April maximum swe was in 1972 and minimum swe was in 1984; May maximum swe was in 1972 and minimum swe was in 1977; and June maximum was in 1972 and minimum swe was in 1987, 1992, and 1998. Average is for the period 1971 through 2000.

Mountain and valley precipitation during April in the Sun was 138 percent of average and 113 percent of last year; in the Teton was 104 percent of average and 95 percent of last year; and in the Marias was 85 percent of average and 105 percent of last year. Mountain and valley water year precipitation, beginning October 1, 2004, was 78 percent of average and 91 percent of last year.



Gibson storage was 119 percent of average and 107 percent of last year; Pishkun storage was 72 percent of average and 62 percent of last year; Willow Creek storage was 119 percent of average and 126 percent of last year; Lower Two Medicine Lake storage was 110 percent of average and 106 percent of last year; Four Horns Lake storage was 94 percent of average and 5800 percent of last year; Swift storage was 115 percent of average and 105 percent of last year; Lake Frances storage was 57 percent of average and 83 percent of last year; and Lake Elwell (Tiber) storage was 105 percent of average and 95 percent of last year.

Seasonal volume and snow melt peak flows and dates are discussed in the statewide summary section.

Surface Water Supply Index (SWSI) was -3.7 in the Sun River; -3.4 in the Teton River; -3.4 in the Birch/Dupuyer Creeks; and -3.9 in the Marias River above Tiber Reservoir and -3.6 in the Marias River below Tiber Reservoir.

SUN-TETON-MARIAS RIVER BASINS
Streamflow Forecasts - May 1, 2005

Forecast Point	Forecast Period	<<====== Drier ====== Future Conditions ======= Wetter =====>> Chance Of Exceeding * 90% (1000AF)	70% (1000AF)	50% (1000AF)	50% (% AVG.)	30% (1000AF)	10% (1000AF)	30-Yr Avg. (1000AF)
GIBSON Reservoir Inflow	MAY-JUL	134	190	225	54	260	315	415
	MAY-SEP	170	225	265	57	305	360	465
TWO MEDICINE RIVER nr Browning	MAY-JUL	29	67	93	53	119	157	174
	MAY-SEP	39	77	103	55	129	167	187
BADGER CREEK nr Browning (2)	MAY-JUL	23	42	55	63	68	87	88
	MAY-SEP	35	55	69	66	83	103	104
SWIFT RESERVOIR Inflow	MAY-JUL	9.1	24	34	60	44	59	57
	MAY-SEP	18.4	34	45	65	56	72	69
DUPUYER CREEK nr Valier	MAY-JUL	1.3	3.1	5.3	46	11.3	20	11.6
	MAY-SEP	1.6	3.7	6.4	48	12.8	22	13.3
CUT BANK CREEK at Cut Bank	MAY-JUL	17.2	30	38	55	46	59	69
	MAY-SEP	32	46	55	71	64	78	78
MARIAS RIVER nr Shelby (2)	MAY-JUL	20	85	130	38	175	240	345
	MAY-SEP	35	100	144	39	188	255	370
TETON nr Dutton	MAY-JUL	0.0	2.9	8.7	21	17.6	37	42
	MAY-SEP	0.0	5.5	11.6	23	27	52	50

SUN-TETON-MARIAS RIVER BASINS
Reservoir Storage (1000 AF) - End of April

Reservoir	Usable Capacity	*** Usable Storage *** This Year	Last Year	Avg
GIBSON	99.1	73.6	68.6	61.8
PISHKUN	32.0	18.7	30.3	25.8
WILLOW CREEK	32.2	30.1	23.9	25.3
LOWER TWO MEDICINE LAKE	11.9	12.1	11.4	11.0
FOUR HORNS LAKE	19.2	11.6	0.2	12.3
SWIFT	30.0	21.2	20.1	18.5
LAKE FRANCES	112.0	43.2	52.1	75.6
LAKE ELWELL (TIBER)	1347.0	690.9	726.5	658.6

SUN-TETON-MARIAS RIVER BASINS
Watershed Snowpack Analysis - May 1, 2005

Watershed	Number of Data Sites	This Year as % of Last Yr	Average
SUN	6	95	51
TETON	4	116	46
MARIAS	6	97	43
SUN-TETON-MARIAS	13	99	47

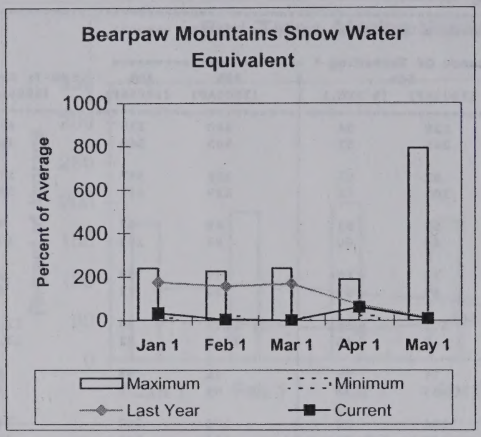
* 90%, 70%, 50%, 30%, and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the table.

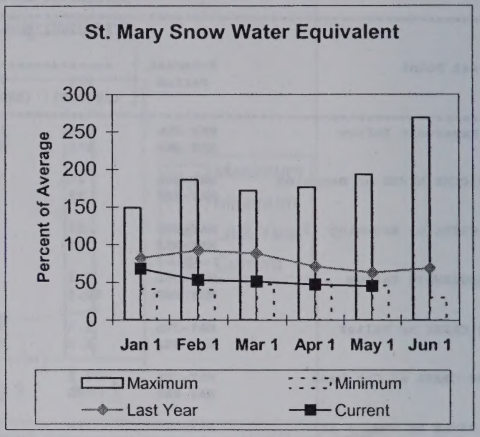
The average is computed for the 1971-2000 base period.

(1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
(2) - The value is natural volume - actual volume may be affected by upstream water management.
(3) - Median value used in place of average. The value listed under 30% is actually a 25% exceedance level. The value listed under 70% is actually a 75% exceedance level. Forecast issued in cooperation with Alberta Environment.

St. Mary and Milk River Basins

Snowpack in the St. Mary and Milk River Basins were severely below average and decreased 5 percent from April 1. The St. Mary has set a new record low snow water content previously set in 1977. Snow water content in the Saint Mary River Basin was 45 percent of average and 71 percent of last year. The Bearpaw Mountains snowpack was 9 percent of average and 67 percent of last year.

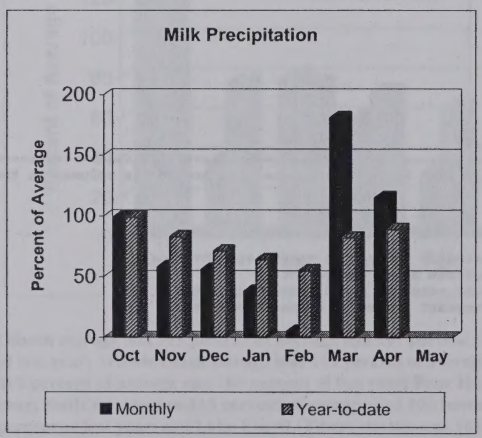


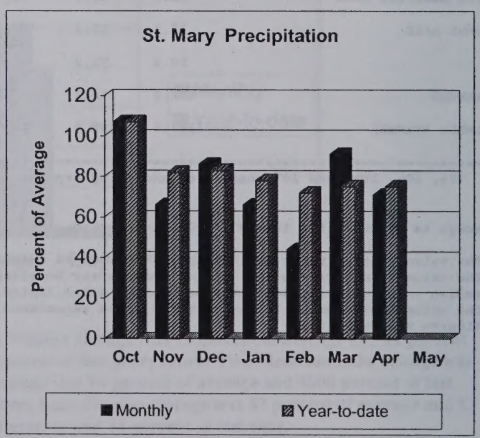


Bearpaw - January maximum swe was established in 1978 and minimum swe was in 1981; February maximum swe was 1978 and minimum was in 1973; March maximum swe was 1978 and minimum swe was 1995; April maximum swe was in 1985 and minimum swe was in 1973, 1983, and 1986; May maximum swe was 1975 and the minimum, 0.0, has occurred in several years. Average is for the period 1971 through 2000.

St. Mary - January maximum swe was established in 1997 and minimum swe was in 1988; February maximum swe was in 1972 and minimum swe was in 2001; March maximum swe was in 1972 and minimum swe was in 1977; April maximum swe was in 1967 and 1972 and minimum swe was in 2001; May maximum swe was in 19972 and minimum swe was in 1977; and June maximum swe was in 1972 and minimum swe was 1992. Average is for the period 1971 through 2000.

Mountain and valley precipitation in the St. Mary River Basin during April was 71 percent of average and 85 percent of last year; and in the Milk River Basin during April was 115 percent of average and 201 percent of last year. Mountain and valley water year precipitation, beginning October 1, 2004, was 81 percent of average and 90 percent of last year.





Lake Sherburne storage was 120 percent of average and 375 percent of last year; Fresno storage was 60 percent of average and 119 percent of last year; Beaver Creek was not available; and Nelson storage was 101 percent of average and 98 percent of last year.

Sesonal volume and snow melt peak flows and dates are discussed in the statewide summary section.

Surface Water Supply Index (SWSI) was -3.1 for the Milk River.

ST. MARY and MILK RIVER BASINS
Streamflow Forecasts - May 1, 2005

Forecast Point	Forecast Period	<<====== Drier ====== Future Conditions ======= Wetter =====>> Chance Of Exceeding * 90% (1000AF)	70% (1000AF)	50% (1000AF)	50% (% AVG.)	30% (1000AF)	10% (1000AF)	30-Yr Avg. (1000AF)
LAKE SHERBURNE Inflow	MAY-JUL	49	57	63	67	69	77	94
	MAY-SEP	63	73	79	71	85	95	112
ST. MARY RIVER nr Babb (2)	MAY-JUL	205	240	260	73	280	315	355
	MAY-SEP	250	290	315	74	340	380	425
ST. MARY RIVER at US/CAN Border (2)	MAY-JUL	210	255	285	71	315	360	400
	MAY-SEP	265	315	350	74	385	435	475
MILK RIVER @ Western Crossing (3)	MAY-JUL	3.2	6.4	12.7	64	14.8	18.4	20
	MAY-SEP	3.7	8.5	15.1	66	17.7	22	23
MILK RIVER @ Milk River, AB (2,3)	MAY-JUL	6.4	15.0	22	59	31	38	38
	MAY-SEP	7.0	16.1	25	61	33	40	41
MILK RIVER @ Eastern Crossing(2,3)	MAY-JUL	5.9	12.1	22	53	31	38	42
	MAY-SEP	7.3	17.6	27	55	39	48	49
BEAVER CREEK near Havre	MAY-JUL	0.0	1.6	3.0	43	4.4	6.5	7.0

ST. MARY and MILK RIVER BASINS
Reservoir Storage (1000 AF) - End of April

Reservoir	Usable Capacity	*** Usable Storage *** This Year	Last Year	Avg
LAKE SHERBURNE	64.3	26.6	7.1	22.2
FRESNO	127.0	54.4	45.6	90.9
BEAVER CREEK		NO REPORT		
NELSON	66.8	43.2	43.9	42.7

ST. MARY and MILK RIVER BASINS
Watershed Snowpack Analysis - May 1, 2005

Watershed	Number of Data Sites	This Year as % of Last Yr	Average
ST. MARY	8	71	45
BEARPAW MOUNTAINS	4	67	9
CYPRESS HILLS, CANADA	0	0	0
MILK RIVER BASIN	4	67	9
ST. MARY & MILK BASINS	12	71	44

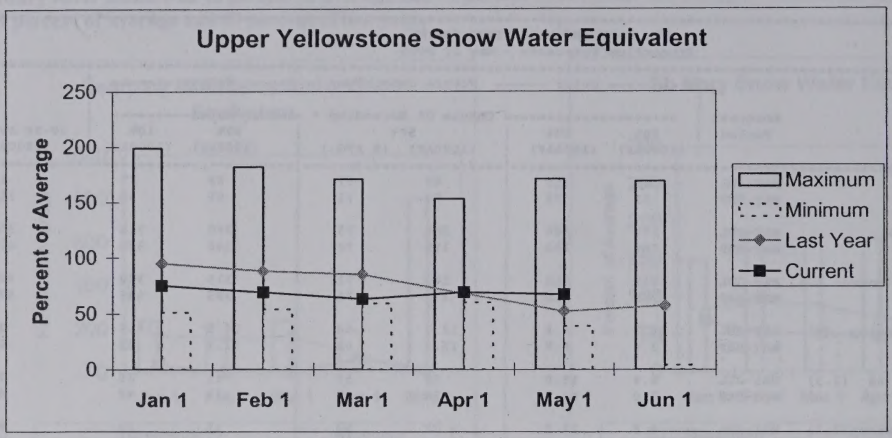
* 90%, 70%, 50%, 30%, and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the table.

The average is computed for the 1971-2000 base period.

(1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
(2) - The value is natural volume - actual volume may be affected by upstream water management.
(3) - Median value used in place of average. The value listed under 30% is actually a 25% exceedance level. The value listed under 70% is actually a 75% exceedance level. Forecast issued in cooperation with Alberta Environment.

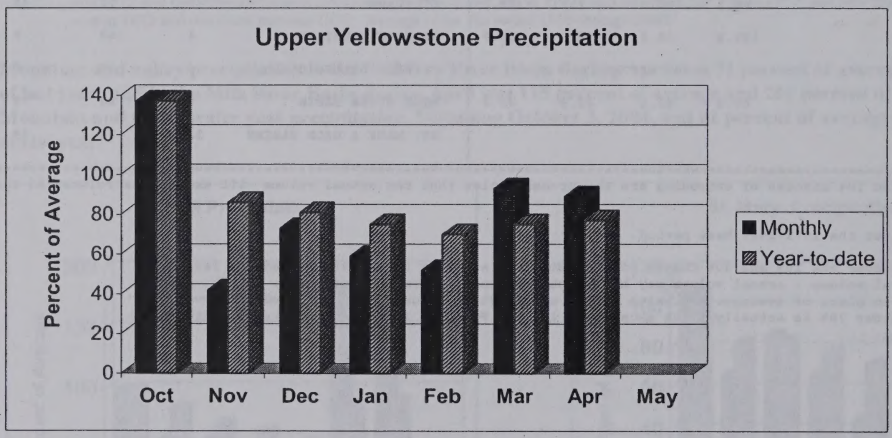
Upper Yellowstone River Basin

Snowpack in the Upper Yellowstone River Basin were well below average and decreased 2 percent from April 1. Snow water content was 67 percent of average and 128 percent of last year.



January maximum swe was established in 1997 and minimum swe was in 1988; February maximum swe was in 1997 and minimum swe was in 2001; March maximum swe was in 1997 and minimum swe was in 2001; April maximum swe was in 1997 and minimum swe was in 2001; May maximum swe was in 1997 and minimum swe was in 1987; and June maximum swe was 1996 and minimum swe was in 2001. Average is for the period 1971 through 2000.

Mountain precipitation during April was 70 percent of average and 113 percent of last year. Valley precipitation during April was 147 percent of average and 224 percent of last year. Mountain and valley water year precipitation, beginning October 1, 2004, was 77 percent of average and 99 percent of last year.



Mystic Lake storage was 20 percent of average and 100 percent of last year and Cooney storage was 121 percent of average and 111 percent of last year.

Seasonal volume and snow melt peak flows and dates are discussed in the statewide summary section.

Surface Water Supply Index (SWSI) was -3.0 in the Yellowstone River above Livingston; -3.1 in the Shields River; -3.2 in the Boulder River; -3.6 in the Stillwater River; -3.8 in the Rock/Red lodge Creeks; -2.9 in the Clarks Fork River; and -3.1 in the Yellowstone River above Bighorn River.

UPPER YELLOWSTONE RIVER BASIN
Streamflow Forecasts - May 1, 2005

Forecast Point	Forecast Period	<<====== Drier ====== Future Conditions ======= Wetter =====>> Chance Of Exceeding * 90% (1000AF)	70% (1000AF)	50% (1000AF)	50% (% AVG.)	30% (1000AF)	10% (1000AF)	30-Yr Avg. (1000AF)
YELLOWSTONE at Lake Outlet	MAY-JUL	250	305	340	61	375	430	555
	MAY-SEP	370	425	460	60	495	550	770
YELLOWSTONE RIVER at Corwin Springs	MAY-JUL	885	1010	1090	70	1170	1300	1550
	MAY-SEP	1090	1230	1330	71	1430	1570	1870
YELLOWSTONE RIVER near Livingston	MAY-JUL	1040	1150	1230	70	1310	1420	1770
	MAY-SEP	1290	1430	1520	71	1610	1750	2150
SHIELDS RIVER nr Livingston	MAY-JUL	6.0	47	75	62	103	144	121
	MAY-SEP	7.0	55	88	64	121	169	138
BOULDER RIVER at Big Timber	MAY-JUL	165	195	215	78	235	265	275
	MAY-SEP	177	210	230	77	250	285	300
MYSTIC LAKE Reservoir Inflow (2)	MAY-JUL	36	42	46	81	50	56	57
	MAY-SEP	48	54	59	80	64	70	74
STILLWATER RIVER nr Absarokee (2)	MAY-JUL	230	285	320	68	355	410	470
	MAY-SEP	285	340	380	68	420	475	560
CLARKS FORK RIVER nr Belfry	MAY-JUL	275	325	355	69	385	435	515
	MAY-SEP	300	350	385	68	420	470	570
COONEY RESERVOIR Inflow (2)	MAY-JUL	0.8	13.1	22	58	31	44	38
	MAY-SEP	6.1	19.0	28	57	37	50	49
YELLOWSTONE RIVER at Billings (2)	MAY-JUL	1360	1870	2210	68	2550	3060	3250
	MAY-SEP	1610	2210	2620	68	3030	3630	3850

UPPER YELLOWSTONE RIVER BASIN
Reservoir Storage (1000 AF) - End of April

Reservoir	Usable Capacity	*** Usable Storage *** This Year	Last Year	Avg
MYSTIC LAKE	21.0	0.2	0.2	1.0
COONEY	27.4	25.3	22.7	20.9

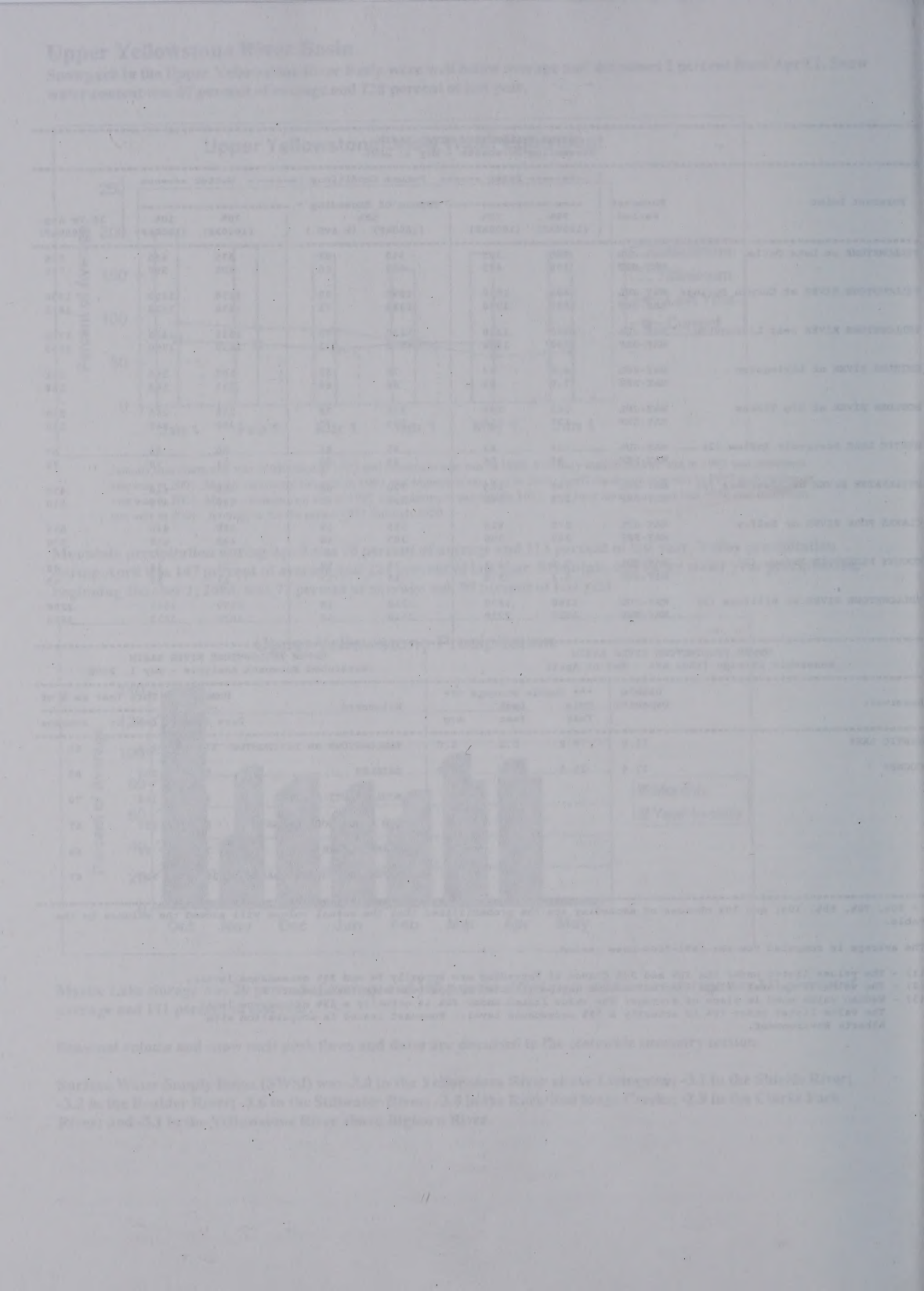
UPPER YELLOWSTONE RIVER BASIN
Watershed Snowpack Analysis - May 1, 2005

Watershed	Number of Data Sites	This Year as % of Last Yr	Average
YELLOWSTONE ab LIVINGSTON	17	132	65
SHIELDS	5	203	85
BOULDER-STILLWATER	4	105	70
RED LODGE-ROCK CREEK	6	156	67
CLARK'S FORK	7	95	60
UPPER YELLOWSTONE BASIN	35	130	67

* 90%, 70%, 50%, 30%, and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the table.

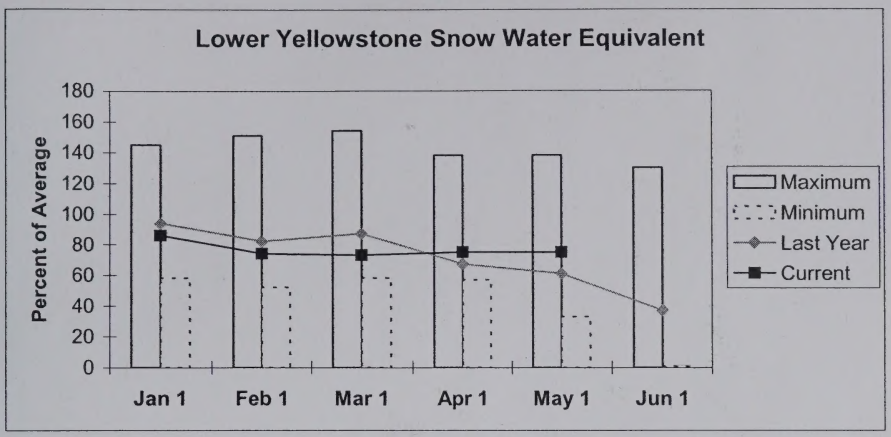
The average is computed for the 1971-2000 base period.

(1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
(2) - The value is natural volume - actual volume may be affected by upstream water management.
(3) - Median value used in place of average. The value listed under 30% is actually a 25% exceedance level. The value listed under 70% is actually a 75% exceedance level. Forecast issued in cooperation with Alberta Environment.



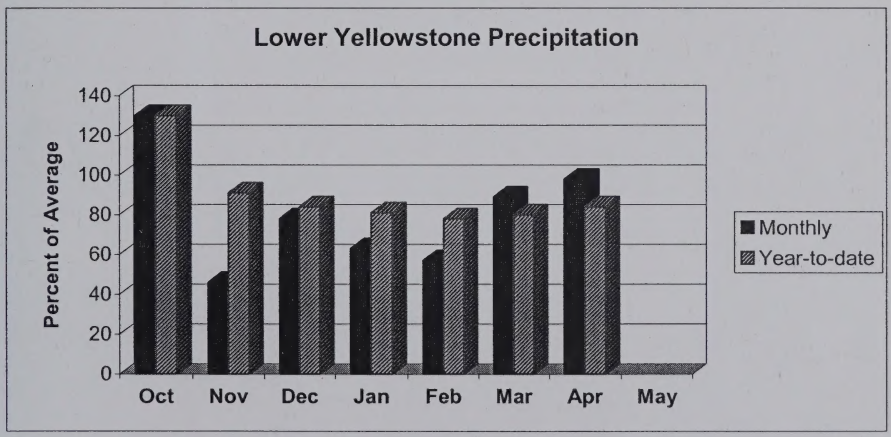
Lower Yellowstone River Basin

Snowpack in the Lower Yellowstone River Basin, in Wyoming, were below average and remained the same as April 1. Snow water content was 75 percent of average and 117 percent of last year.



January maximum swe was established in 1997 and minimum swe was in 2000; February maximum swe was in 1997 and minimum swe was in 2001; March maximum swe was in 1986 and minimum swe was in 2001; April maximum swe was in 1986 and minimum swe was in 2001; May maximum swe was in 1997 and minimum swe was in 1981; and June maximum swe was in 1995 and minimum swe was in 2001. Average is for the period 1971 through 2000.

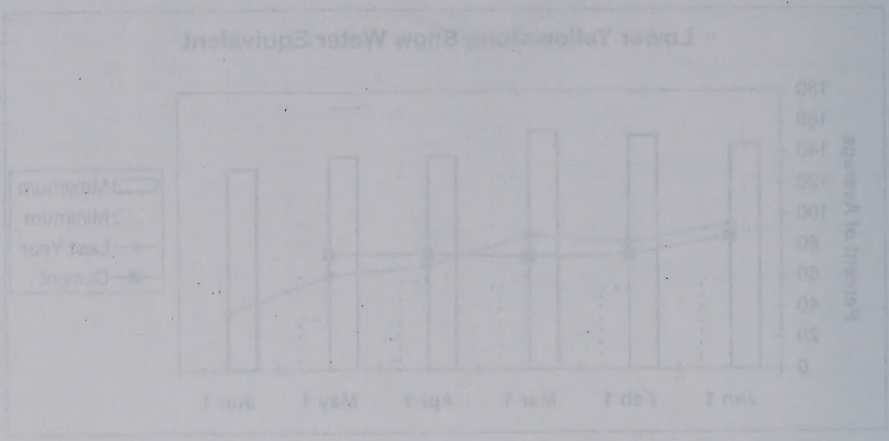
Mountain and valley precipitation during April was 98 percent of average and 128 percent of last year. Mountain and valley water year precipitation, beginning October 1, 2004, was 84 percent of average and 104 percent of last year.

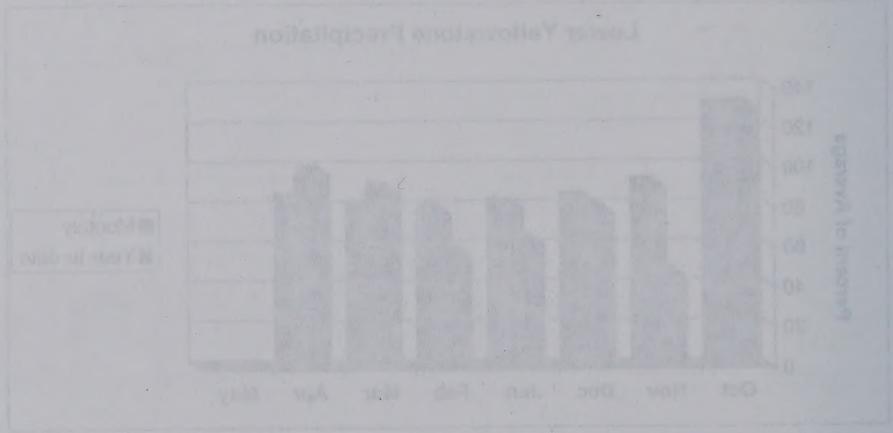


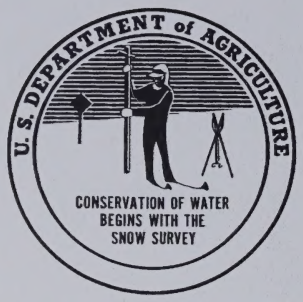
Bighorn Lake storage was 84 percent of average and 104 percent of last year and Tongue River storage was 152 percent of average and 97 percent of last year.

Seasonal volume and snow melt peak flows and dates are discussed in the statewide summary section.

Surface Water Supply Index (SWSI) was -1.2 in the Bighorn River below Bighorn Lake; -3.5 in the Little Bighorn River; -2.2 in the Yellowstone River below Bighorn River; -3.1 in the Tongue River; and -3.5 in the Powder River.







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Montana
Water Supply Outlook Report

Natural Resources Conservation Service
Bozeman, MT